



Lea County, NM (NAD 27 NME)

Diamond 5 Fed Com #8H

Nomac 55

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 3001  
System Datum: Mean Sea Level

WELL DETAILS: #8H

Ground Level: 3376.0  
KB = 21 @ 3397.0usft (Nomac 55)  
Northing: 420210.00 Easting: 761381.00 Latitude: 32° 9' 8.840 N Longitude: 103° 29' 19.562 W



Azimuths to Grid North  
True North: -0.45°  
Magnetic North: 6.70°

Magnetic Field  
Strength: 48128.8nT  
Dip Angle: 60.04°  
Date: 4/19/2016  
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.70°  
To convert a Magnetic Direction to a True Direction, Add 7.15° East  
To convert a True Direction to a Grid Direction, Subtract 0.45°

#### SECTION DETAILS

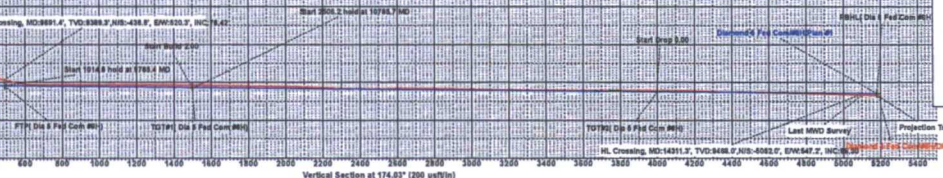
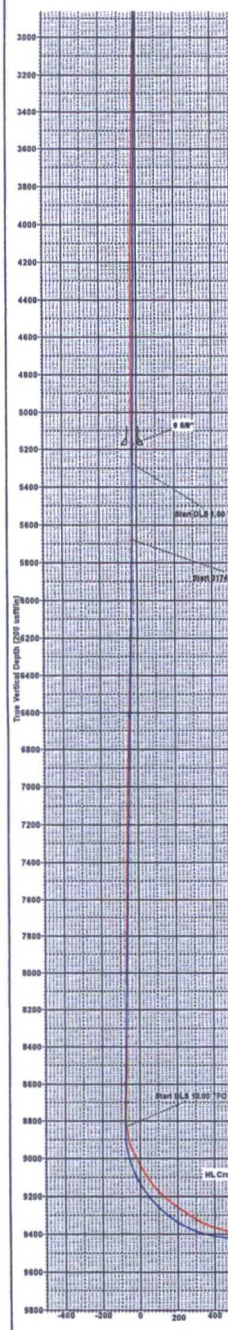
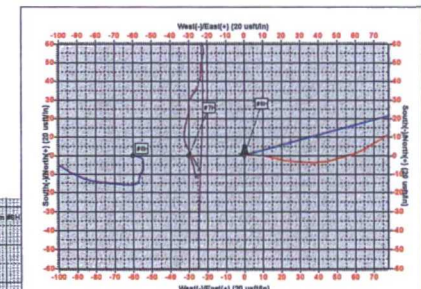
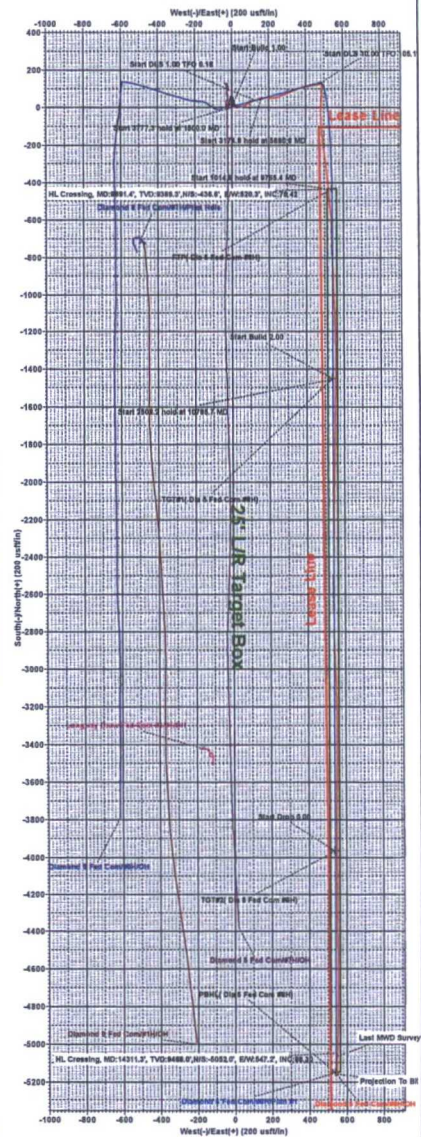
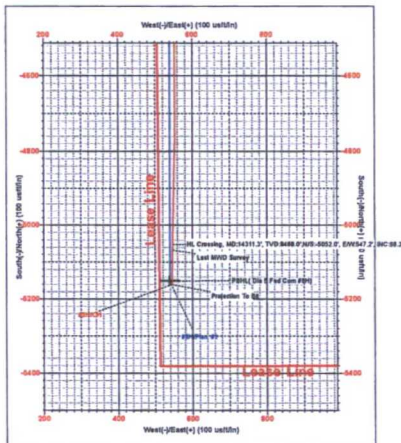
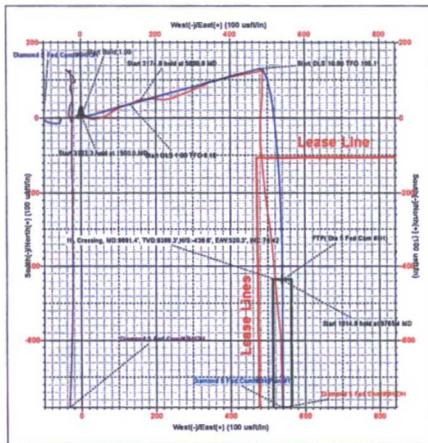
| Sec | MD      | Inc   | Azi    | TVD    | +N/-S   | +E/-W | Dleg  | TFace  | Vsect  | Target                    |
|-----|---------|-------|--------|--------|---------|-------|-------|--------|--------|---------------------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0    | 0.0     | 0.0   | 0.00  | 0.00   | 0.0    |                           |
| 2   | 1300.0  | 0.00  | 0.00   | 1300.0 | 0.0     | 0.0   | 0.00  | 0.00   | 0.0    |                           |
| 3   | 1500.0  | 2.00  | 74.74  | 1500.0 | 0.9     | 3.4   | 1.00  | 74.74  | -0.6   |                           |
| 4   | 5277.3  | 2.00  | 74.74  | 5275.0 | 35.6    | 130.5 | 0.00  | 0.00   | -21.8  |                           |
| 5   | 5680.6  | 6.03  | 74.86  | 5677.1 | 43.0    | 157.8 | 1.00  | 0.18   | -26.4  |                           |
| 6   | 8855.3  | 6.03  | 74.86  | 8834.3 | 130.1   | 479.8 | 0.00  | 0.00   | -79.5  |                           |
| 7   | 9765.4  | 89.44 | 180.00 | 9420.0 | -437.0  | 539.0 | 10.00 | 105.11 | 490.7  | FTP (Dia 5 Fed Com #8H)   |
| 8   | 10780.3 | 89.44 | 180.00 | 9430.0 | -1451.8 | 539.0 | 0.00  | 0.00   | 1500.0 | TGT#1 (Dia 5 Fed Com #8H) |
| 9   | 10785.7 | 89.54 | 180.00 | 9430.0 | -1457.2 | 539.0 | 2.00  | 0.00   | 1505.4 |                           |
| 10  | 13294.0 | 89.54 | 180.00 | 9450.0 | -3965.4 | 539.0 | 0.00  | 0.00   | 4000.0 | TGT#2 (Dia 5 Fed Com #8H) |
| 11  | 14480.6 | 89.49 | 180.00 | 9460.0 | -5152.0 | 539.0 | 0.00  | 180.00 | 5180.1 | PBHL (Dia 5 Fed Com #8H)  |

#### CASING DETAILS

| TVD    | MD     | Name    | Size   |
|--------|--------|---------|--------|
| 1200.0 | 1200.0 | 13 3/8" | 13-3/8 |
| 5175.0 | 5177.3 | 9 5/8"  | 9-5/8  |

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

| Name                      | TVD    | +N/-S   | +E/-W | Northing  | Easting   |
|---------------------------|--------|---------|-------|-----------|-----------|
| FTP (Dia 5 Fed Com #8H)   | 9420.0 | -437.0  | 539.0 | 419773.00 | 761920.00 |
| TGT#1 (Dia 5 Fed Com #8H) | 9430.0 | -1451.8 | 539.0 | 419768.20 | 761920.00 |
| TGT#2 (Dia 5 Fed Com #8H) | 9450.0 | -3965.4 | 539.0 | 416244.60 | 761920.00 |
| PBHL (Dia 5 Fed Com #8H)  | 9460.0 | -5152.0 | 539.0 | 416068.00 | 761920.00 |



Lea County, NM (NAD 27 NME)  
Diamond 5 Fed Com #8H  
Nomac 55  
Plan #1  
4/19/2016



## **EOG Resources - Midland**

Lea County, NM (NAD 27 NME)

Diamond 5 Fed Com

#8H

OH

Design: OH

## **EOG PVA**

22 April, 2015

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EOG Resources, Inc.  
EOG PVA

Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 27 NME)  
Site: Diamond 5 Fed Com  
Well: #8H  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference: Well #8H  
TVD Reference: KB = 21 @ 3397.0usft (Nomac 55)  
MD Reference: KB = 21 @ 3397.0usft (Nomac 55)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: EDM 5000.1 Single User Db

Project Lea County, NM (NAD 27 NME)

Map System: US State Plane 1927 (Exact solution)  
Geo Datum: NAD 1927 (NADCON CONUS)  
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Diamond 5 Fed Com

|                       |          |              |                 |                   |                   |
|-----------------------|----------|--------------|-----------------|-------------------|-------------------|
| Site Position:        |          | Northing:    | 420,210.00 usft | Latitude:         | 32° 9' 8.845 N    |
| From: Map             |          | Easting:     | 761,321.00 usft | Longitude:        | 103° 29' 20.260 W |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 "       | Grid Convergence: | 0.45 "            |

Well #8H

|                      |       |          |                     |                 |               |                   |
|----------------------|-------|----------|---------------------|-----------------|---------------|-------------------|
| Well Position        | +N/-S | 0.0 usft | Northing:           | 420,210.00 usft | Latitude:     | 32° 9' 8.840 N    |
|                      | +E/-W | 0.0 usft | Easting:            | 761,381.00 usft | Longitude:    | 103° 29' 19.562 W |
| Position Uncertainty |       | 0.0 usft | Wellhead Elevation: | 0.0 usft        | Ground Level: | 3,376.0 usft      |

Wellbore OH

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | IGRF2015   | 4/13/2015   | 7.15            | 60.04         | 48,129              |

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) | Direction<br>(°) |
|-------------------|----------------------------|-----------------|-----------------|------------------|
|                   | 0.0                        | 0.0             | 0.0             | 174.03           |

Survey Program Date 4/22/2015

| From<br>(usft) | To<br>(usft) | Survey (Wellbore) | Tool Name | Description    |
|----------------|--------------|-------------------|-----------|----------------|
| 196.0          | 14,420.0     | MWD #1 (OH)       | MWD       | MWD - Standard |



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| 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) |
|--------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 0.0          | 0.00       | 0.00                     | 0.0           | 0.0           | 0.0           | 0.00                | 0.00                 | 0.00                | 0.0                    | 0.0                     |
| 196.0        | 2.10       | 94.30                    | 196.0         | -0.3          | 3.6           | 1.07                | 1.07                 | 0.00                | -3.6                   | 0.0                     |
| 284.0        | 2.00       | 87.70                    | 283.9         | -0.3          | 6.7           | 0.29                | -0.11                | -7.50               | -6.7                   | -0.6                    |
| 372.0        | 1.90       | 94.10                    | 371.8         | -0.4          | 9.7           | 0.27                | -0.11                | 7.27                | -9.7                   | 0.3                     |
| 493.0        | 1.60       | 106.70                   | 492.8         | -1.0          | 13.3          | 0.40                | -0.25                | 10.41               | -13.1                  | 2.9                     |
| 587.0        | 1.20       | 106.40                   | 586.8         | -1.7          | 15.5          | 0.43                | -0.43                | -0.32               | -15.4                  | 2.8                     |
| 679.0        | 1.30       | 103.80                   | 678.7         | -2.2          | 17.5          | 0.12                | 0.11                 | -2.83               | -17.5                  | 2.1                     |
| 771.0        | 1.50       | 102.30                   | 770.7         | -2.7          | 19.7          | 0.22                | 0.22                 | -1.63               | -19.8                  | 1.6                     |
| 866.0        | 1.10       | 96.40                    | 865.7         | -3.0          | 21.8          | 0.44                | -0.42                | -6.21               | -22.0                  | -0.6                    |
| 961.0        | 1.30       | 95.00                    | 960.7         | -3.2          | 23.8          | 0.21                | 0.21                 | -1.47               | -24.0                  | -1.2                    |
| 1,056.0      | 1.20       | 96.60                    | 1,055.6       | -3.5          | 25.8          | 0.11                | -0.11                | 1.68                | -26.0                  | -0.5                    |
| 1,152.0      | 1.40       | 99.10                    | 1,151.6       | -3.8          | 28.0          | 0.22                | 0.21                 | 2.60                | -28.2                  | 0.7                     |
| 1,195.0      | 1.50       | 90.30                    | 1,194.6       | -3.8          | 29.1          | 0.57                | 0.23                 | -20.47              | -29.1                  | -3.7                    |
| 1,351.0      | 1.20       | 96.10                    | 1,350.6       | -4.0          | 32.7          | 0.21                | -0.19                | 3.72                | -32.8                  | -0.6                    |
| 1,446.0      | 2.10       | 88.10                    | 1,445.5       | -4.1          | 35.5          | 0.98                | 0.95                 | -8.42               | -33.5                  | -5.7                    |
| 1,541.0      | 2.50       | 92.40                    | 1,540.4       | -4.1          | 39.3          | 0.46                | 0.42                 | 4.53                | -34.7                  | -4.0                    |
| 1,637.0      | 2.40       | 80.30                    | 1,636.4       | -3.8          | 43.3          | 0.55                | -0.10                | -12.60              | -33.8                  | -11.9                   |
| 1,731.0      | 2.50       | 72.10                    | 1,730.3       | -2.9          | 47.2          | 0.39                | 0.11                 | -8.72               | -32.5                  | -16.7                   |
| 1,827.0      | 2.30       | 76.10                    | 1,826.2       | -1.8          | 51.1          | 0.27                | -0.21                | 4.17                | -34.3                  | -14.4                   |
| 1,921.0      | 2.30       | 74.70                    | 1,920.1       | -0.8          | 54.7          | 0.06                | 0.00                 | -1.49               | -34.4                  | -15.2                   |
| 2,016.0      | 2.30       | 70.30                    | 2,015.0       | 0.3           | 58.4          | 0.19                | 0.00                 | -4.63               | -33.6                  | -17.7                   |
| 2,111.0      | 2.30       | 65.40                    | 2,110.0       | 1.8           | 61.9          | 0.21                | 0.00                 | -5.16               | -32.5                  | -20.1                   |
| 2,206.0      | 2.50       | 61.50                    | 2,204.9       | 3.5           | 65.5          | 0.27                | 0.21                 | -4.11               | -31.8                  | -21.7                   |
| 2,301.0      | 2.50       | 60.20                    | 2,299.8       | 5.6           | 69.1          | 0.06                | 0.00                 | -1.37               | -32.3                  | -21.6                   |
| 2,396.0      | 2.40       | 58.30                    | 2,394.7       | 7.6           | 72.6          | 0.14                | -0.11                | -2.00               | -32.4                  | -21.8                   |
| 2,492.0      | 2.40       | 55.70                    | 2,490.6       | 9.8           | 75.9          | 0.11                | 0.00                 | -2.71               | -32.2                  | -22.2                   |
| 2,586.0      | 2.40       | 54.90                    | 2,584.5       | 12.1          | 79.2          | 0.04                | 0.00                 | -0.85               | -32.8                  | -21.6                   |



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Design: OH

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Database: EDM 5000.1 Single User Db

Survey

| MD<br>(usft) | Inc<br>(°) | Azi<br>(grid_north_azim) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 2,681.0      | 2.50       | 56.90                    | 2,679.4       | 14.3          | 82.5          | 0.14                | 0.11                 | 2.11                | -34.4                  | -19.4                   |
| 2,776.0      | 2.50       | 58.70                    | 2,774.4       | 16.5          | 86.0          | 0.08                | 0.00                 | 1.89                | -36.0                  | -17.3                   |
| 2,871.0      | 2.70       | 62.20                    | 2,869.3       | 18.7          | 89.8          | 0.27                | 0.21                 | 3.68                | -38.0                  | -14.2                   |
| 2,967.0      | 2.90       | 62.10                    | 2,965.1       | 20.9          | 93.9          | 0.21                | 0.21                 | -0.10               | -39.4                  | -13.6                   |
| 3,062.0      | 2.80       | 68.50                    | 3,060.0       | 22.9          | 98.2          | 0.25                | -0.11                | 4.63                | -41.8                  | -9.8                    |
| 3,157.0      | 2.70       | 67.30                    | 3,154.9       | 24.7          | 102.4         | 0.11                | -0.11                | 0.84                | -43.2                  | -8.8                    |
| 3,251.0      | 3.00       | 65.90                    | 3,248.8       | 26.5          | 106.7         | 0.33                | 0.32                 | -1.49               | -44.4                  | -9.4                    |
| 3,346.0      | 3.30       | 66.20                    | 3,343.7       | 28.7          | 111.4         | 0.32                | 0.32                 | 0.32                | -46.4                  | -8.7                    |
| 3,441.0      | 3.80       | 69.00                    | 3,438.5       | 30.9          | 116.9         | 0.56                | 0.53                 | 2.95                | -49.3                  | -5.9                    |
| 3,537.0      | 3.50       | 72.90                    | 3,534.3       | 32.9          | 122.7         | 0.41                | -0.31                | 4.06                | -52.4                  | -2.2                    |
| 3,631.0      | 3.10       | 75.40                    | 3,628.1       | 34.4          | 127.9         | 0.45                | -0.43                | 2.66                | -54.6                  | 0.1                     |
| 3,726.0      | 3.00       | 72.80                    | 3,723.0       | 35.8          | 132.7         | 0.18                | -0.11                | -2.74               | -56.2                  | -2.3                    |
| 3,916.0      | 2.90       | 65.20                    | 3,912.7       | 39.3          | 141.8         | 0.21                | -0.05                | -4.00               | -58.6                  | -9.3                    |
| 4,011.0      | 2.70       | 61.90                    | 4,007.6       | 41.3          | 146.0         | 0.27                | -0.21                | -3.47               | -59.4                  | -12.1                   |
| 4,106.0      | 2.70       | 59.80                    | 4,102.5       | 43.5          | 149.9         | 0.10                | 0.00                 | -2.21               | -60.2                  | -13.5                   |
| 4,201.0      | 2.90       | 74.60                    | 4,197.4       | 45.3          | 154.1         | 0.79                | 0.21                 | 15.58               | -62.9                  | 2.9                     |
| 4,296.0      | 3.10       | 81.10                    | 4,292.3       | 46.3          | 159.0         | 0.42                | 0.21                 | 6.84                | -63.8                  | 9.9                     |
| 4,391.0      | 3.30       | 84.10                    | 4,387.1       | 47.0          | 164.3         | 0.27                | 0.21                 | 3.16                | -65.2                  | 12.9                    |
| 4,486.0      | 3.30       | 82.00                    | 4,482.0       | 47.6          | 169.7         | 0.13                | 0.00                 | -2.21               | -67.9                  | 9.9                     |
| 4,582.0      | 3.70       | 83.60                    | 4,577.8       | 48.4          | 175.5         | 0.43                | 0.42                 | 1.67                | -70.1                  | 11.4                    |
| 4,677.0      | 3.40       | 85.60                    | 4,672.6       | 48.9          | 181.4         | 0.34                | -0.32                | 2.11                | -72.3                  | 13.3                    |
| 4,772.0      | 3.00       | 83.30                    | 4,767.5       | 49.4          | 186.6         | 0.44                | -0.42                | -2.42               | -74.8                  | 9.8                     |
| 4,867.0      | 3.30       | 89.00                    | 4,862.3       | 49.8          | 191.8         | 0.46                | 0.32                 | 6.00                | -75.4                  | 16.6                    |
| 4,963.0      | 3.40       | 98.00                    | 4,958.2       | 49.4          | 197.4         | 0.56                | 0.10                 | 9.37                | -74.4                  | 27.3                    |
| 5,058.0      | 3.30       | 100.00                   | 5,053.0       | 48.6          | 202.9         | 0.16                | -0.11                | 2.11                | -76.0                  | 28.6                    |
| 5,104.0      | 3.20       | 98.30                    | 5,098.9       | 48.1          | 205.5         | 0.30                | -0.22                | -3.70               | -77.9                  | 25.6                    |
| 5,245.0      | 2.70       | 100.10                   | 5,239.7       | 47.0          | 212.6         | 0.36                | -0.35                | 1.28                | -79.9                  | 26.1                    |



EOG Resources, Inc.  
EOG PVA

Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 27 NME)  
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Well: #8H  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference: Well #8H  
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Survey

| MD<br>(usft) | Inc<br>(°) | Azi<br>(grid_north_azim) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 5,340.0      | 3.00       | 90.40                    | 5,334.6       | 46.6          | 217.3         | 0.60                | 0.32                 | -10.21              | -84.3                  | 10.9                    |
| 5,435.0      | 4.00       | 86.30                    | 5,429.4       | 46.8          | 223.1         | 1.08                | 1.05                 | -4.32               | -85.6                  | 3.6                     |
| 5,530.0      | 4.20       | 87.80                    | 5,524.2       | 47.1          | 229.9         | 0.24                | 0.21                 | 1.58                | -85.7                  | 4.4                     |
| 5,625.0      | 4.80       | 73.90                    | 5,618.9       | 48.4          | 237.2         | 1.31                | 0.63                 | -14.63              | -83.2                  | -17.0                   |
| 5,721.0      | 5.00       | 72.50                    | 5,714.6       | 50.7          | 245.0         | 0.24                | 0.21                 | -1.46               | -81.1                  | -18.7                   |
| 5,816.0      | 5.00       | 71.60                    | 5,809.2       | 53.3          | 252.9         | 0.08                | 0.00                 | -0.95               | -79.1                  | -19.4                   |
| 5,912.0      | 5.10       | 70.70                    | 5,904.8       | 56.0          | 260.9         | 0.13                | 0.10                 | -0.94               | -77.2                  | -20.0                   |
| 6,007.0      | 5.10       | 67.70                    | 5,999.4       | 59.0          | 268.8         | 0.28                | 0.00                 | -3.16               | -74.6                  | -23.0                   |
| 6,102.0      | 5.10       | 67.30                    | 6,094.1       | 62.2          | 276.6         | 0.04                | 0.00                 | -0.42               | -73.0                  | -22.2                   |
| 6,197.0      | 4.80       | 67.10                    | 6,188.7       | 65.4          | 284.2         | 0.32                | -0.32                | -0.21               | -71.2                  | -21.1                   |
| 6,292.0      | 4.80       | 66.20                    | 6,283.4       | 68.6          | 291.5         | 0.08                | 0.00                 | -0.95               | -68.9                  | -20.8                   |
| 6,387.0      | 4.80       | 66.30                    | 6,378.0       | 71.8          | 298.7         | 0.01                | 0.00                 | 0.11                | -67.0                  | -19.2                   |
| 6,482.0      | 4.70       | 66.40                    | 6,472.7       | 74.9          | 305.9         | 0.11                | -0.11                | 0.11                | -65.0                  | -17.6                   |
| 6,578.0      | 4.60       | 66.10                    | 6,568.4       | 78.1          | 313.1         | 0.11                | -0.10                | -0.31               | -62.7                  | -16.4                   |
| 6,673.0      | 4.40       | 66.70                    | 6,663.1       | 81.0          | 319.9         | 0.22                | -0.21                | 0.63                | -60.5                  | -14.3                   |
| 6,767.0      | 5.20       | 68.00                    | 6,756.8       | 84.1          | 327.2         | 0.86                | 0.85                 | 1.38                | -58.8                  | -11.7                   |
| 6,862.0      | 5.30       | 67.90                    | 6,851.4       | 87.3          | 335.2         | 0.11                | 0.11                 | -0.11               | -57.6                  | -10.6                   |
| 6,957.0      | 5.00       | 68.40                    | 6,946.0       | 90.5          | 343.1         | 0.32                | -0.32                | 0.53                | -56.3                  | -8.9                    |
| 7,053.0      | 4.80       | 67.60                    | 7,041.6       | 93.6          | 350.7         | 0.22                | -0.21                | -0.83               | -54.3                  | -8.5                    |
| 7,148.0      | 5.40       | 74.50                    | 7,136.3       | 96.3          | 358.7         | 0.90                | 0.63                 | 7.26                | -53.4                  | -1.4                    |
| 7,244.0      | 5.30       | 76.30                    | 7,231.9       | 98.5          | 367.4         | 0.20                | -0.10                | 1.87                | -52.2                  | 0.2                     |
| 7,338.0      | 6.10       | 77.00                    | 7,325.4       | 100.7         | 376.5         | 0.85                | 0.85                 | 0.74                | -51.7                  | 0.5                     |
| 7,434.0      | 5.80       | 77.40                    | 7,420.9       | 102.9         | 386.2         | 0.32                | -0.31                | 0.42                | -51.6                  | 0.4                     |
| 7,528.0      | 5.50       | 77.70                    | 7,514.4       | 104.9         | 395.2         | 0.32                | -0.32                | 0.32                | -51.0                  | 0.3                     |
| 7,623.0      | 5.10       | 78.30                    | 7,609.0       | 106.7         | 403.8         | 0.43                | -0.42                | 0.63                | -49.7                  | 0.2                     |
| 7,718.0      | 6.10       | 76.10                    | 7,703.6       | 108.8         | 412.8         | 1.08                | 1.05                 | -2.32               | -49.0                  | -2.0                    |
| 7,814.0      | 6.20       | 77.30                    | 7,799.0       | 111.2         | 422.8         | 0.17                | 0.10                 | 1.25                | -49.2                  | -1.3                    |



EOG Resources, Inc.  
EOG PVA

Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 27 NME)  
Site: Diamond 5 Fed Com  
Well: #8H  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference: Well #8H  
TVD Reference: KB = 21 @ 3397.0usft (Nomac 55)  
MD Reference: KB = 21 @ 3397.0usft (Nomac 55)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: EDM 5000.1 Single User Db

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) |
|--------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 7,908.0      | 5.70       | 79.00                    | 7,892.5       | 113.2         | 432.4         | 0.56                | -0.53                | 1.81                | -49.1                  | -0.5                    |
| 8,004.0      | 5.30       | 80.40                    | 7,988.1       | 114.8         | 441.4         | 0.44                | -0.42                | 1.46                | -48.3                  | -0.1                    |
| 8,098.0      | 4.80       | 80.70                    | 8,081.7       | 116.2         | 449.6         | 0.53                | -0.53                | 0.32                | -46.7                  | -0.8                    |
| 8,194.0      | 4.50       | 81.50                    | 8,177.4       | 117.4         | 457.3         | 0.32                | -0.31                | 0.83                | -44.5                  | -1.3                    |
| 8,288.0      | 4.50       | 83.50                    | 8,271.1       | 118.3         | 464.6         | 0.17                | 0.00                 | 2.13                | -42.1                  | -1.1                    |
| 8,384.0      | 2.90       | 77.40                    | 8,366.9       | 119.3         | 470.7         | 1.71                | -1.67                | -6.35               | -37.8                  | -6.4                    |
| 8,479.0      | 2.70       | 80.10                    | 8,461.8       | 120.2         | 475.2         | 0.25                | -0.21                | 2.84                | -32.8                  | -5.4                    |
| 8,574.0      | 2.20       | 54.10                    | 8,556.7       | 121.7         | 478.9         | 1.27                | -0.53                | -27.37              | -21.6                  | -16.7                   |
| 8,669.0      | 2.20       | 55.00                    | 8,651.6       | 123.8         | 481.9         | 0.04                | 0.00                 | 0.95                | -16.1                  | -12.9                   |
| 8,752.0      | 2.20       | 59.60                    | 8,734.6       | 125.5         | 484.6         | 0.21                | 0.00                 | 5.54                | -11.8                  | -9.1                    |
| 8,783.0      | 2.00       | 56.10                    | 8,765.5       | 126.1         | 485.5         | 0.77                | -0.65                | -11.29              | -9.3                   | -8.8                    |
| 8,830.0      | 2.90       | 166.00                   | 8,812.5       | 125.4         | 486.5         | 8.60                | 1.91                 | 233.83              | -6.2                   | 7.5                     |
| 8,878.0      | 8.50       | 174.20                   | 8,860.2       | 120.7         | 487.2         | 11.76               | 11.67                | 17.08               | -10.0                  | 3.6                     |
| 8,925.0      | 15.70      | 178.60                   | 8,906.2       | 110.9         | 487.7         | 15.43               | 15.32                | 9.36                | -16.6                  | -0.1                    |
| 8,973.0      | 22.10      | 180.60                   | 8,951.6       | 95.3          | 487.7         | 13.40               | 13.33                | 4.17                | -25.4                  | -4.3                    |
| 9,068.0      | 31.30      | 182.30                   | 9,036.3       | 52.7          | 486.5         | 9.72                | 9.68                 | 1.79                | -43.8                  | -13.9                   |
| 9,115.0      | 31.90      | 185.20                   | 9,076.4       | 28.1          | 484.9         | 3.48                | 1.28                 | 6.17                | -51.6                  | -17.5                   |
| 9,163.0      | 35.60      | 184.90                   | 9,116.3       | 1.6           | 482.6         | 7.72                | 7.71                 | -0.62               | -56.2                  | -24.6                   |
| 9,210.0      | 41.00      | 180.30                   | 9,153.2       | -27.5         | 481.3         | 12.99               | 11.49                | -9.79               | -58.0                  | -34.1                   |
| 9,258.0      | 46.70      | 177.70                   | 9,187.8       | -60.7         | 482.0         | 12.45               | 11.87                | -5.42               | -60.6                  | -39.9                   |
| 9,304.0      | 52.60      | 175.60                   | 9,217.5       | -95.7         | 484.0         | 13.29               | 12.83                | -4.57               | -63.7                  | -43.1                   |
| 9,352.0      | 52.80      | 175.30                   | 9,246.6       | -133.8        | 487.1         | 0.65                | 0.42                 | -0.62               | -66.3                  | -43.4                   |
| 9,398.0      | 57.20      | 174.00                   | 9,273.0       | -171.3        | 490.6         | 9.84                | 9.57                 | -2.83               | -66.0                  | -43.3                   |
| 9,446.0      | 57.00      | 172.60                   | 9,299.1       | -211.3        | 495.3         | 2.48                | -0.42                | -2.92               | -63.0                  | -41.5                   |
| 9,493.0      | 61.10      | 171.80                   | 9,323.2       | -251.2        | 500.8         | 8.84                | 8.72                 | -1.70               | -57.8                  | -37.7                   |
| 9,542.0      | 66.20      | 173.40                   | 9,345.0       | -294.8        | 506.4         | 10.81               | 10.41                | 3.27                | -52.5                  | -32.3                   |
| 9,589.0      | 72.80      | 174.10                   | 9,361.4       | -338.5        | 511.2         | 14.11               | 14.04                | 1.49                | -47.6                  | -27.9                   |



EOG Resources, Inc.  
EOG PVA

Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 27 NME)  
Site: Diamond 5 Fed Com  
Well: #8H  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference: Well #8H  
TV Reference: KB = 21 @ 3397.0usft (Nomac 55)  
MD Reference: KB = 21 @ 3397.0usft (Nomac 55)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: EDM 5000.1 Single User Db

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) |
|--------------------------------------------------------------------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 9,637.0                                                                  | 73.60      | 174.80                   | 9,375.3       | -384.2        | 515.6         | 2.17                | 1.67                 | 1.46                | -41.1                  | -23.9                   |
| 9,684.0                                                                  | 76.10      | 174.90                   | 9,387.6       | -429.4        | 519.7         | 5.32                | 5.32                 | 0.21                | -32.0                  | -19.8                   |
| 9,691.4                                                                  | 76.42      | 174.96                   | 9,389.3       | -436.6        | 520.3         | 4.45                | 4.37                 | 0.84                | -30.3                  | -19.2                   |
| HL Crossing, MD:9691.4', TVD:9389.3', N/S:-436.6', E/W:520.3', INC:76.42 |            |                          |               |               |               |                     |                      |                     |                        |                         |
| 9,732.0                                                                  | 78.20      | 175.30                   | 9,398.3       | -476.0        | 523.7         | 4.45                | 4.38                 | 0.83                | -21.9                  | -15.6                   |
| 9,780.0                                                                  | 79.30      | 174.80                   | 9,407.6       | -522.9        | 527.8         | 2.51                | 2.29                 | -1.04               | -13.1                  | -11.4                   |
| 9,827.0                                                                  | 85.80      | 174.30                   | 9,413.7       | -569.3        | 532.2         | 13.87               | 13.83                | -1.06               | -7.6                   | -8.8                    |
| 9,861.0                                                                  | 89.10      | 178.40                   | 9,415.2       | -603.2        | 534.3         | 15.47               | 9.71                 | 12.06               | -6.4                   | -4.7                    |
| 9,875.0                                                                  | 89.70      | 179.20                   | 9,415.4       | -617.2        | 534.6         | 7.14                | 4.29                 | 5.71                | -6.4                   | -4.4                    |
| 10,052.0                                                                 | 90.20      | 177.60                   | 9,415.5       | -794.1        | 539.6         | 0.95                | 0.28                 | -0.90               | -8.0                   | 0.6                     |
| 10,147.0                                                                 | 90.50      | 177.80                   | 9,415.0       | -889.0        | 543.4         | 0.38                | 0.32                 | 0.21                | -9.5                   | 4.4                     |
| 10,242.0                                                                 | 90.00      | 178.60                   | 9,414.5       | -984.0        | 546.4         | 0.99                | -0.53                | 0.84                | -10.9                  | 7.4                     |
| 10,336.0                                                                 | 90.20      | 177.40                   | 9,414.4       | -1,077.9      | 549.7         | 1.29                | 0.21                 | -1.28               | -11.9                  | 10.6                    |
| 10,431.0                                                                 | 90.00      | 179.10                   | 9,414.2       | -1,172.9      | 552.6         | 1.80                | -0.21                | 1.79                | -13.0                  | 13.6                    |
| 10,526.0                                                                 | 89.10      | 179.40                   | 9,415.0       | -1,267.9      | 553.8         | 1.00                | -0.95                | 0.32                | -13.2                  | 14.8                    |
| 10,621.0                                                                 | 89.40      | 179.80                   | 9,416.2       | -1,362.8      | 554.5         | 0.53                | 0.32                 | 0.42                | -12.9                  | 15.5                    |
| 10,716.0                                                                 | 89.50      | 180.60                   | 9,417.1       | -1,457.8      | 554.1         | 0.85                | 0.11                 | 0.84                | -12.9                  | 15.1                    |
| 10,811.0                                                                 | 89.10      | 181.30                   | 9,418.3       | -1,552.8      | 552.6         | 0.85                | -0.42                | 0.74                | -12.5                  | 13.6                    |
| 10,906.0                                                                 | 89.10      | 180.80                   | 9,419.8       | -1,647.8      | 550.8         | 0.53                | 0.00                 | -0.53               | -11.8                  | 11.8                    |
| 11,000.0                                                                 | 89.20      | 180.40                   | 9,421.2       | -1,741.8      | 549.8         | 0.44                | 0.11                 | -0.43               | -11.2                  | 10.8                    |
| 11,095.0                                                                 | 89.50      | 180.40                   | 9,422.2       | -1,836.8      | 549.2         | 0.32                | 0.32                 | 0.00                | -10.8                  | 10.2                    |
| 11,190.0                                                                 | 88.40      | 181.80                   | 9,424.0       | -1,931.7      | 547.3         | 1.87                | -1.16                | 1.47                | -9.8                   | 8.3                     |
| 11,285.0                                                                 | 88.10      | 180.80                   | 9,426.9       | -2,026.7      | 545.2         | 1.10                | -0.32                | -1.05               | -7.7                   | 6.2                     |
| 11,380.0                                                                 | 87.70      | 180.60                   | 9,430.4       | -2,121.6      | 544.0         | 0.47                | -0.42                | -0.21               | -5.0                   | 5.0                     |
| 11,475.0                                                                 | 88.60      | 180.70                   | 9,433.4       | -2,216.5      | 543.0         | 0.95                | 0.95                 | 0.11                | -2.7                   | 4.0                     |
| 11,569.0                                                                 | 88.80      | 180.90                   | 9,435.6       | -2,310.5      | 541.6         | 0.30                | 0.21                 | 0.21                | -1.3                   | 2.6                     |
| 11,664.0                                                                 | 90.00      | 180.50                   | 9,436.6       | -2,405.5      | 540.5         | 1.33                | 1.26                 | -0.42               | -1.0                   | 1.5                     |



EOG Resources, Inc.  
EOG PVA

Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 27 NME)  
Site: Diamond 5 Fed Com  
Well: #8H  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference: Well #8H  
TVD Reference: KB = 21 @ 3397.0usft (Nomac 55)  
MD Reference: KB = 21 @ 3397.0usft (Nomac 55)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: EDM 5000.1 Single User Db

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) |
|--------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 11,759.0     | 91.30      | 181.70                   | 9,435.5       | -2,500.5      | 538.7         | 1.86                | 1.37                 | 1.26                | -2.9                   | -0.3                    |
| 11,855.0     | 90.20      | 179.90                   | 9,434.2       | -2,596.4      | 537.3         | 2.20                | -1.15                | -1.87               | -4.9                   | -1.7                    |
| 11,950.0     | 89.10      | 178.80                   | 9,434.8       | -2,691.4      | 538.4         | 1.64                | -1.16                | -1.16               | -5.1                   | -0.6                    |
| 12,045.0     | 89.10      | 178.70                   | 9,436.3       | -2,786.4      | 540.5         | 0.11                | 0.00                 | -0.11               | -4.3                   | 1.5                     |
| 12,140.0     | 89.20      | 178.40                   | 9,437.7       | -2,881.3      | 542.9         | 0.33                | 0.11                 | -0.32               | -3.7                   | 3.9                     |
| 12,235.0     | 89.40      | 178.30                   | 9,438.9       | -2,976.3      | 545.6         | 0.24                | 0.21                 | -0.11               | -3.3                   | 6.6                     |
| 12,330.0     | 89.10      | 178.20                   | 9,440.1       | -3,071.2      | 548.5         | 0.33                | -0.32                | -0.11               | -2.8                   | 9.5                     |
| 12,425.0     | 88.90      | 178.20                   | 9,441.8       | -3,166.2      | 551.5         | 0.21                | -0.21                | 0.00                | -1.9                   | 12.5                    |
| 12,521.0     | 90.10      | 179.60                   | 9,442.6       | -3,262.2      | 553.3         | 1.92                | 1.25                 | 1.46                | -1.8                   | 14.3                    |
| 12,615.0     | 89.40      | 179.90                   | 9,443.0       | -3,356.2      | 553.7         | 0.81                | -0.74                | 0.32                | -2.1                   | 14.7                    |
| 12,710.0     | 89.40      | 180.30                   | 9,444.0       | -3,451.2      | 553.6         | 0.42                | 0.00                 | 0.42                | -1.9                   | 14.6                    |
| 12,805.0     | 89.90      | 180.70                   | 9,444.6       | -3,546.1      | 552.7         | 0.67                | 0.53                 | 0.42                | -2.1                   | 13.7                    |
| 12,900.0     | 90.90      | 181.40                   | 9,443.9       | -3,641.1      | 551.0         | 1.28                | 1.05                 | 0.74                | -3.5                   | 12.0                    |
| 12,996.0     | 89.20      | 180.70                   | 9,443.8       | -3,737.1      | 549.2         | 1.92                | -1.77                | -0.73               | -4.3                   | 10.2                    |
| 13,090.0     | 89.80      | 180.70                   | 9,444.7       | -3,831.1      | 548.1         | 0.64                | 0.64                 | 0.00                | -4.3                   | 9.1                     |
| 13,185.0     | 89.90      | 180.20                   | 9,444.9       | -3,926.1      | 547.4         | 0.54                | 0.11                 | -0.53               | -4.8                   | 8.4                     |
| 13,280.0     | 89.50      | 179.00                   | 9,445.4       | -4,021.1      | 548.0         | 1.33                | -0.42                | -1.26               | -5.0                   | 9.0                     |
| 13,375.0     | 89.20      | 180.00                   | 9,446.5       | -4,116.1      | 548.8         | 1.10                | -0.32                | 1.05                | -4.7                   | 9.8                     |
| 13,470.0     | 87.70      | 179.90                   | 9,449.1       | -4,211.0      | 548.9         | 1.58                | -1.58                | -0.11               | -2.9                   | 9.9                     |
| 13,565.0     | 88.50      | 179.20                   | 9,452.2       | -4,306.0      | 549.7         | 1.12                | 0.84                 | -0.74               | -0.6                   | 10.7                    |
| 13,660.0     | 88.70      | 178.90                   | 9,454.5       | -4,400.9      | 551.2         | 0.38                | 0.21                 | -0.32               | 1.0                    | 12.3                    |
| 13,755.0     | 89.80      | 179.80                   | 9,455.8       | -4,495.9      | 552.3         | 1.50                | 1.16                 | 0.95                | 1.4                    | 13.3                    |
| 13,850.0     | 88.60      | 179.40                   | 9,457.1       | -4,590.9      | 553.0         | 1.33                | -1.26                | -0.42               | 2.0                    | 14.0                    |
| 13,946.0     | 89.10      | 179.80                   | 9,459.0       | -4,686.9      | 553.7         | 0.67                | 0.52                 | 0.42                | 3.1                    | 14.7                    |
| 14,041.0     | 89.00      | 181.30                   | 9,460.6       | -4,781.9      | 552.7         | 1.58                | -0.11                | 1.58                | 3.8                    | 13.7                    |
| 14,137.0     | 88.30      | 181.30                   | 9,462.9       | -4,877.8      | 550.6         | 0.73                | -0.73                | 0.00                | 5.3                    | 11.6                    |
| 14,232.0     | 88.30      | 181.10                   | 9,465.7       | -4,972.8      | 548.6         | 0.21                | 0.00                 | -0.21               | 7.3                    | 9.6                     |



EOG Resources, Inc.  
EOG PVA

Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 27 NME)  
Site: Diamond 5 Fed Com  
Well: #8H  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference: Well #8H  
TVD Reference: KB = 21 @ 3397.0usft (Nomac 55)  
MD Reference: KB = 21 @ 3397.0usft (Nomac 55)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: EDM 5000.1 Single User Db

Survey

| MD<br>(usft)                                                               | Inc<br>(°) | Azi<br>(grid_north_azim) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|----------------------------------------------------------------------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 14,311.3                                                                   | 88.30      | 180.93                   | 9,468.0       | -5,052.0      | 547.2         | 0.21                | 0.00                 | -0.21               | 8.9                    | 8.2                     |
| HL Crossing, MD:14311.3', TVD:9468.0', N/S:-5052.0', E/W:547.2', INC:88.30 |            |                          |               |               |               |                     |                      |                     |                        |                         |
| 14,327.0                                                                   | 88.30      | 180.90                   | 9,468.5       | -5,067.7      | 546.9         | 0.21                | 0.00                 | -0.21               | 9.2                    | 7.9                     |
| Last MWD Survey                                                            |            |                          |               |               |               |                     |                      |                     |                        |                         |
| 14,420.0                                                                   | 88.30      | 180.90                   | 9,471.3       | -5,160.6      | 545.5         | 0.00                | 0.00                 | 0.00                | 13.4                   | 8.0                     |
| Projection To Bit                                                          |            |                          |               |               |               |                     |                      |                     |                        |                         |

Design Annotations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                                                                    |
|-----------------------------|-----------------------------|-------------------|-----------------|----------------------------------------------------------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                                                            |
| 9,691.4                     | 9,389.3                     | -436.6            | 520.3           | HL Crossing, MD:9691.4', TVD:9389.3', N/S:-436.6', E/W:520.3', INC:76.42   |
| 14,311.3                    | 9,468.0                     | -5,052.0          | 547.2           | HL Crossing, MD:14311.3', TVD:9468.0', N/S:-5052.0', E/W:547.2', INC:88.30 |
| 14,327.0                    | 9,468.5                     | -5,067.7          | 546.9           | Last MWD Survey                                                            |
| 14,420.0                    | 9,471.3                     | -5,160.6          | 545.5           | Projection To Bit                                                          |

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