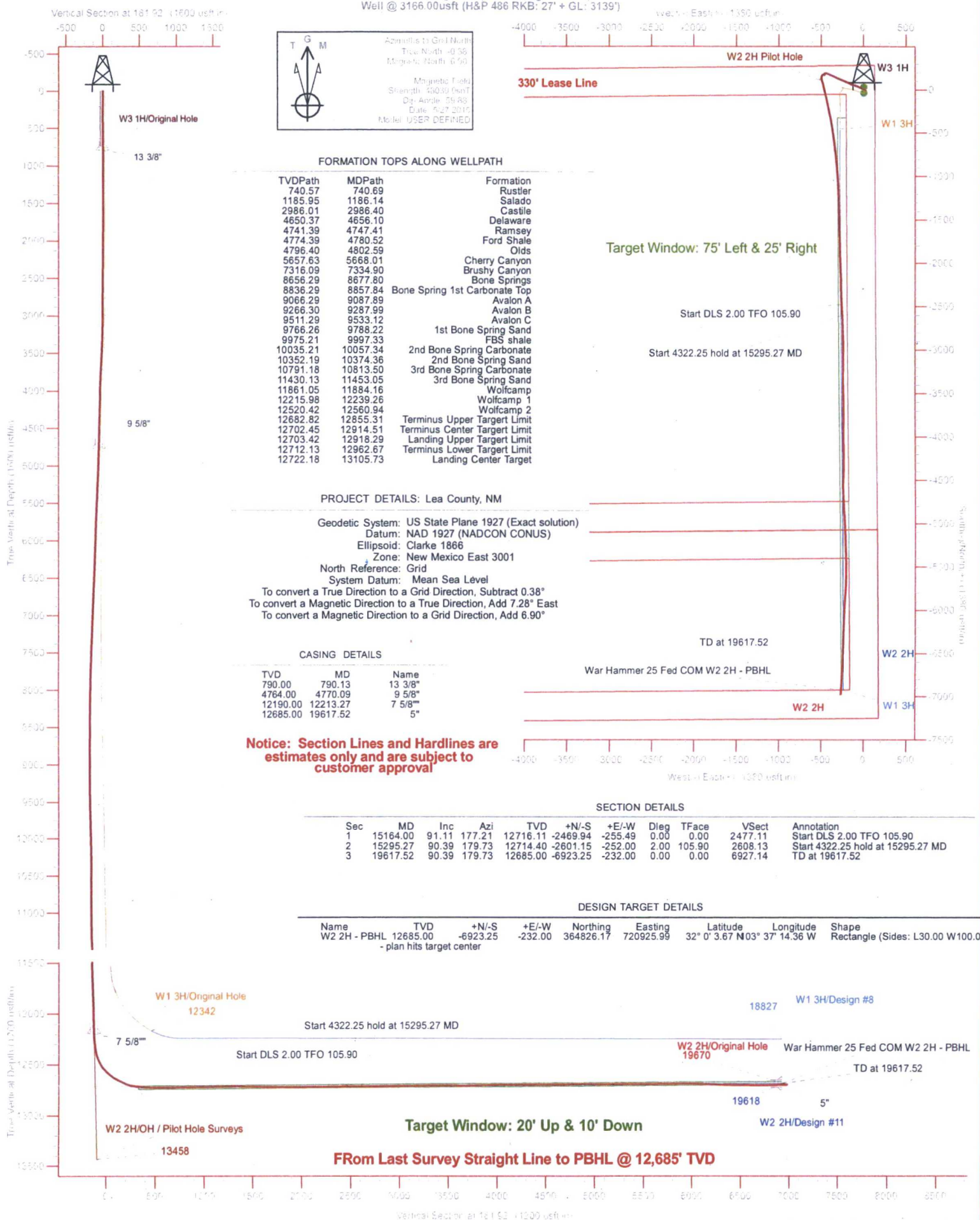
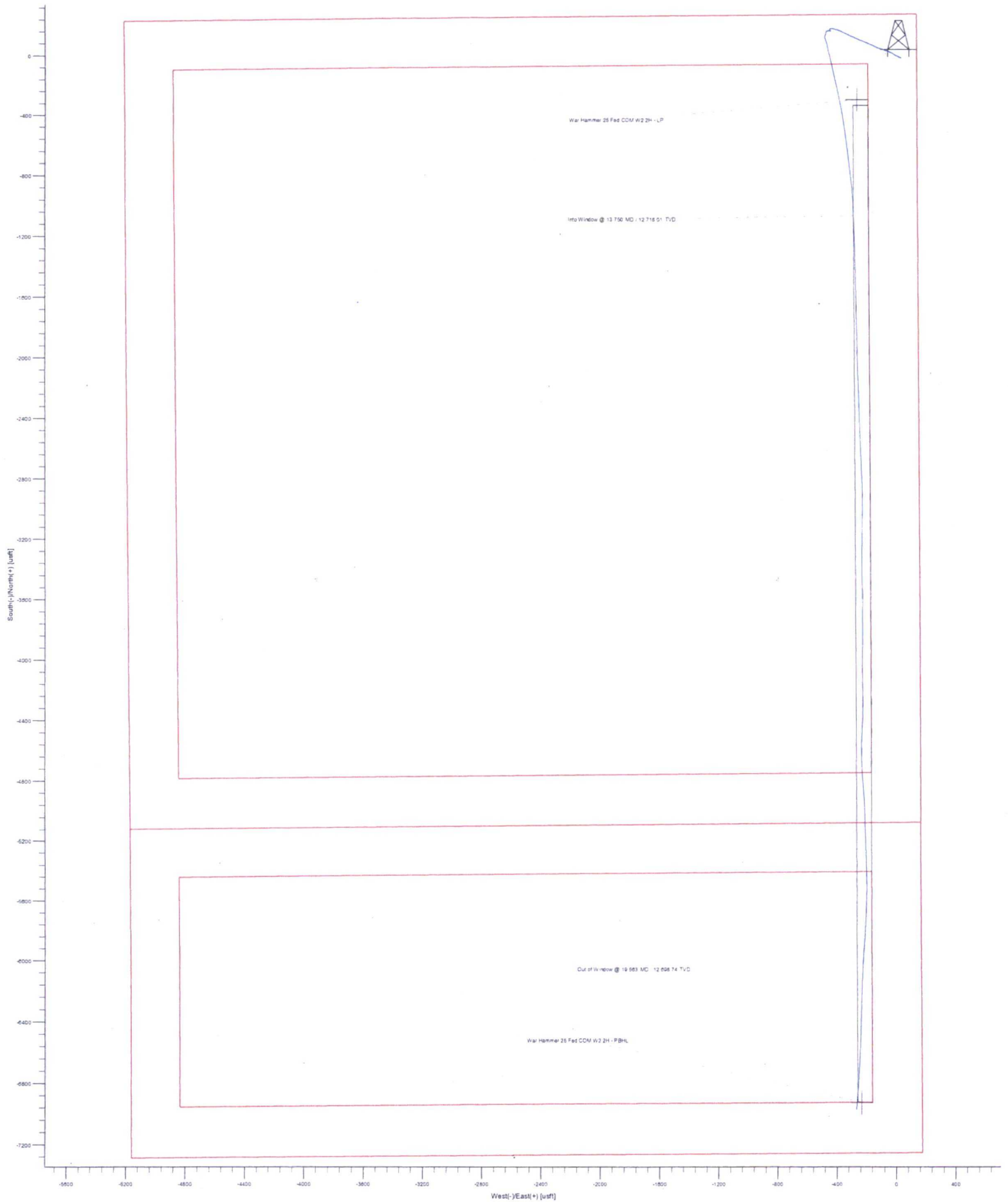


Plan: Design #11 (W2 2H/Original Hole)  
Well @ 3166.00usft (H&P 486 RKB: 27' + GL: 3139')







## ConocoPhillips

Lea County, NM  
War Hammer 25 Fed Com  
W2 2H

Original Hole

Design: Original Hole

## Standard Survey Report

22 June, 2015

HOBBS OCD  
SEP 19 2017  
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**gyro/data**  
Precision Wellbore Placement

|           |                       |                              |                                                   |
|-----------|-----------------------|------------------------------|---------------------------------------------------|
| Company:  | ConocoPhillips        | Local Co-ordinate Reference: | Well W2 2H                                        |
| Project:  | Lea County, NM        | TVD Reference:               | Well @ 3166.00usft (H&P 486 RKB: 27' + GL: 3139') |
| Site:     | War Hammer 25 Fed Com | MD Reference:                | Well @ 3166.00usft (H&P 486 RKB: 27' + GL: 3139') |
| Well:     | W2 2H                 | North Reference:             | Grid                                              |
| Wellbore: | Original Hole         | Survey Calculation Method:   | Minimum Curvature                                 |
| Design:   | Original Hole         | Database:                    | Gyrodata NWDB                                     |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Lea County, NM                       | System Datum: | Mean Sea Level |
| Map System: | US State Plane 1927 (Exact solution) |               |                |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico East 3001                 |               |                |

|                       |                       |                   |                  |
|-----------------------|-----------------------|-------------------|------------------|
| Site                  | War Hammer 25 Fed Com |                   |                  |
| Site Position:        |                       | Northing:         | 371,782.24 usft  |
| From:                 | Map                   | Easting:          | 721,157.76 usft  |
| Position Uncertainty: | 0.00 usft             | Slot Radius:      | 13.20 in         |
|                       |                       | Latitude:         | 32° 1' 12.49 N   |
|                       |                       | Longitude:        | 103° 37' 11.14 W |
|                       |                       | Grid Convergence: | 0.38 °           |

|                      |       |           |                     |                 |               |                  |
|----------------------|-------|-----------|---------------------|-----------------|---------------|------------------|
| Well                 | W2 2H |           |                     |                 |               |                  |
| Well Position        | +N/-S | 0.00 usft | Northing:           | 371,749.42 usft | Latitude:     | 32° 1' 12.17 N   |
|                      | +E/-W | 0.00 usft | Easting:            | 721,157.99 usft | Longitude:    | 103° 37' 11.14 W |
| Position Uncertainty |       | 0.00 usft | Wellhead Elevation: | 0.00 usft       | Ground Level: | 3,139.00 usft    |

|           |               |             |                    |                  |                        |
|-----------|---------------|-------------|--------------------|------------------|------------------------|
| Wellbore  | Original Hole |             |                    |                  |                        |
| Magnetics | Model Name    | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|           | User Defined  | 5/27/2015   | 7.28               | 59.88            | 48,039                 |

|                   |                            |                 |                 |                  |      |
|-------------------|----------------------------|-----------------|-----------------|------------------|------|
| Design            | Original Hole              |                 |                 |                  |      |
| Audit Notes:      |                            |                 |                 |                  |      |
| Version:          | 1.0                        | Phase:          | ACTUAL          | Tie On Depth:    | 0.00 |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |      |
|                   | 0.00                       | 0.00            | 0.00            | 179.57           |      |

|                |           |                           |                    |                           |
|----------------|-----------|---------------------------|--------------------|---------------------------|
| Survey Program | Date      | 6/22/2015                 |                    |                           |
| From (usft)    | To (usft) | Survey (Wellbore)         | Tool Name          | Description               |
| 134.00         | 745.00    | Survey #1 (Original Hole) | MWD - ISCWSA - COP | MWD - Standard ISCWSA COP |
| 884.00         | 19,670.00 | Survey #2 (Original Hole) | MWD - ISCWSA - COP | MWD - Standard ISCWSA COP |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 134.00                | 0.20            | 161.40      | 134.00                | -0.22        | 0.07         | 0.22                    | 0.15                  | 0.15                 | 0.00                |
| 197.00                | 0.40            | 91.70       | 197.00                | -0.33        | 0.33         | 0.33                    | 0.60                  | 0.32                 | -110.63             |
| 258.00                | 0.60            | 97.40       | 258.00                | -0.38        | 0.86         | 0.39                    | 0.34                  | 0.33                 | 9.34                |
| 320.00                | 1.00            | 109.80      | 319.99                | -0.60        | 1.69         | 0.62                    | 0.70                  | 0.65                 | 20.00               |
| 405.00                | 1.00            | 100.90      | 404.98                | -1.00        | 3.12         | 1.02                    | 0.18                  | 0.00                 | -10.47              |
| 490.00                | 1.20            | 117.10      | 489.96                | -1.54        | 4.64         | 1.58                    | 0.43                  | 0.24                 | 19.06               |
| 576.00                | 1.50            | 115.50      | 575.94                | -2.44        | 6.45         | 2.49                    | 0.35                  | 0.35                 | -1.86               |

Company: ConocoPhillips  
Project: Lea County, NM  
Site: War Hammer 25 Fed Com  
Well: W2 2H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well W2 2H  
TVD Reference: Well @ 3166.00usft (H&P 486 RKB: 27' + GL: 3139')  
MD Reference: Well @ 3166.00usft (H&P 486 RKB: 27' + GL: 3139')  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Gyrodata NWDB

Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| 660.00                | 1.50            | 109.80      | 659.91                | -3.28        | 8.48         | 3.35                    | 0.18                  | 0.00                 | -6.79               |
| 745.00                | 1.50            | 122.90      | 744.88                | -4.26        | 10.46        | 4.34                    | 0.40                  | 0.00                 | 15.41               |
| 790.13                | 1.45            | 122.09      | 790.00                | -4.89        | 11.44        | 4.97                    | 0.12                  | -0.11                | -1.80               |
| 13 3/8"               |                 |             |                       |              |              |                         |                       |                      |                     |
| 884.00                | 1.35            | 120.21      | 883.84                | -6.08        | 13.40        | 6.18                    | 0.12                  | -0.11                | -2.00               |
| 975.00                | 0.89            | 110.26      | 974.82                | -6.86        | 14.99        | 6.97                    | 0.55                  | -0.51                | -10.93              |
| 1,066.00              | 0.74            | 104.24      | 1,065.81              | -7.25        | 16.23        | 7.37                    | 0.19                  | -0.16                | -6.62               |
| 1,156.00              | 0.50            | 112.86      | 1,155.81              | -7.54        | 17.15        | 7.67                    | 0.29                  | -0.27                | 9.58                |
| 1,249.00              | 0.51            | 104.67      | 1,248.80              | -7.81        | 17.93        | 7.94                    | 0.08                  | 0.01                 | -8.81               |
| 1,343.00              | 0.50            | 106.29      | 1,342.80              | -8.03        | 18.72        | 8.17                    | 0.02                  | -0.01                | 1.72                |
| 1,438.00              | 0.16            | 294.65      | 1,437.80              | -8.09        | 19.00        | 8.23                    | 0.69                  | -0.36                | -180.67             |
| 1,532.00              | 0.56            | 304.90      | 1,531.80              | -7.77        | 18.51        | 7.91                    | 0.43                  | 0.43                 | 10.90               |
| 1,626.00              | 0.51            | 296.31      | 1,625.79              | -7.32        | 17.75        | 7.46                    | 0.10                  | -0.05                | -9.14               |
| 1,721.00              | 0.75            | 293.44      | 1,720.79              | -6.89        | 16.80        | 7.01                    | 0.25                  | 0.25                 | -3.02               |
| 1,815.00              | 0.89            | 292.26      | 1,814.78              | -6.37        | 15.56        | 6.48                    | 0.15                  | 0.15                 | -1.26               |
| 1,909.00              | 0.81            | 297.03      | 1,908.77              | -5.79        | 14.30        | 5.90                    | 0.11                  | -0.09                | 5.07                |
| 2,003.00              | 0.84            | 301.25      | 2,002.76              | -5.13        | 13.12        | 5.23                    | 0.07                  | 0.03                 | 4.49                |
| 2,097.00              | 0.92            | 295.72      | 2,096.74              | -4.44        | 11.85        | 4.53                    | 0.12                  | 0.09                 | -5.88               |
| 2,192.00              | 0.99            | 293.81      | 2,191.73              | -3.78        | 10.41        | 3.86                    | 0.08                  | 0.07                 | -2.01               |
| 2,286.00              | 1.07            | 289.68      | 2,285.72              | -3.16        | 8.84         | 3.23                    | 0.12                  | 0.09                 | -4.39               |
| 2,380.00              | 0.99            | 286.23      | 2,379.70              | -2.64        | 7.23         | 2.69                    | 0.11                  | -0.09                | -3.67               |
| 2,475.00              | 0.95            | 289.21      | 2,474.69              | -2.15        | 5.70         | 2.19                    | 0.07                  | -0.04                | 3.14                |
| 2,569.00              | 1.02            | 293.73      | 2,568.67              | -1.55        | 4.20         | 1.59                    | 0.11                  | 0.07                 | 4.81                |
| 2,663.00              | 0.97            | 299.30      | 2,662.66              | -0.83        | 2.74         | 0.85                    | 0.12                  | -0.05                | 5.93                |
| 2,758.00              | 0.95            | 306.86      | 2,757.65              | 0.04         | 1.41         | -0.03                   | 0.13                  | -0.02                | 7.96                |
| 2,852.00              | 0.91            | 300.25      | 2,851.63              | 0.88         | 0.14         | -0.88                   | 0.12                  | -0.04                | -7.03               |
| 2,946.00              | 0.85            | 289.78      | 2,945.62              | 1.49         | -1.16        | -1.50                   | 0.18                  | -0.06                | -11.14              |
| 3,041.00              | 1.60            | 302.21      | 3,040.60              | 2.44         | -2.95        | -2.46                   | 0.83                  | 0.79                 | 13.08               |
| 3,135.00              | 2.86            | 295.13      | 3,134.53              | 4.13         | -6.18        | -4.18                   | 1.37                  | 1.34                 | -7.53               |
| 3,229.00              | 4.19            | 292.75      | 3,228.35              | 6.46         | -11.47       | -6.54                   | 1.42                  | 1.41                 | -2.53               |
| 3,324.00              | 4.19            | 298.15      | 3,323.09              | 9.44         | -17.73       | -9.57                   | 0.42                  | 0.00                 | 5.68                |
| 3,418.00              | 4.76            | 298.56      | 3,416.81              | 12.92        | -24.18       | -13.10                  | 0.61                  | 0.61                 | 0.44                |
| 3,513.00              | 4.63            | 301.86      | 3,511.49              | 16.83        | -30.90       | -17.06                  | 0.32                  | -0.14                | 3.47                |
| 3,607.00              | 4.33            | 307.86      | 3,605.20              | 21.01        | -36.93       | -21.29                  | 0.59                  | -0.32                | 6.38                |
| 3,701.00              | 5.37            | 297.00      | 3,698.87              | 25.19        | -43.65       | -25.51                  | 1.47                  | 1.11                 | -11.55              |
| 3,796.00              | 5.57            | 292.88      | 3,793.43              | 29.00        | -51.86       | -29.38                  | 0.46                  | 0.21                 | -4.34               |
| 3,890.00              | 5.07            | 294.55      | 3,887.03              | 32.50        | -59.84       | -32.94                  | 0.56                  | -0.53                | 1.78                |
| 3,984.00              | 5.08            | 292.17      | 3,980.66              | 35.79        | -67.47       | -36.30                  | 0.22                  | 0.01                 | -2.53               |
| 4,078.00              | 4.25            | 289.68      | 4,074.35              | 38.54        | -74.60       | -39.09                  | 0.91                  | -0.88                | -2.65               |
| 4,173.00              | 3.53            | 291.00      | 4,169.13              | 40.77        | -80.65       | -41.37                  | 0.76                  | -0.76                | 1.39                |
| 4,267.00              | 4.09            | 290.26      | 4,262.92              | 42.97        | -86.49       | -43.61                  | 0.60                  | 0.60                 | -0.79               |
| 4,361.00              | 5.23            | 289.46      | 4,356.61              | 45.56        | -93.68       | -46.26                  | 1.21                  | 1.21                 | -0.85               |

Company: ConocoPhillips  
Project: Lea County, NM  
Site: War Hammer 25 Fed Com  
Well: W2 2H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well W2 2H  
TVD Reference: Well @ 3166.00usft (H&P 486 RKB: 27' + GL: 3139')  
MD Reference: Well @ 3166.00usft (H&P 486 RKB: 27' + GL: 3139')  
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Survey Calculation Method: Minimum Curvature  
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Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|-----------------------|-----------------|-------------|-----------------------|-------------|-------------|-------------------------|-----------------------|----------------------|---------------------|
| 4,456.00              | 5.80            | 289.06      | 4,451.17              | 48.57       | -102.30     | -49.33                  | 0.60                  | 0.60                 | -0.42               |
| 4,550.00              | 5.43            | 286.57      | 4,544.72              | 51.38       | -111.05     | -52.22                  | 0.47                  | -0.39                | -2.65               |
| 4,644.00              | 5.07            | 285.31      | 4,638.32              | 53.75       | -119.32     | -54.64                  | 0.40                  | -0.38                | -1.34               |
| 4,725.00              | 4.41            | 286.15      | 4,719.04              | 55.56       | -125.76     | -56.50                  | 0.82                  | -0.81                | 1.04                |
| 4,790.15              | 4.54            | 287.46      | 4,784.00              | 57.03       | -130.63     | -58.01                  | 0.26                  | 0.21                 | 2.01                |
| 9 5/8"                |                 |             |                       |             |             |                         |                       |                      |                     |
| 4,855.00              | 4.68            | 288.69      | 4,848.64              | 58.65       | -135.59     | -59.67                  | 0.26                  | 0.21                 | 1.90                |
| 4,949.00              | 4.82            | 293.78      | 4,942.31              | 61.47       | -142.83     | -62.54                  | 0.47                  | 0.15                 | 5.41                |
| 5,044.00              | 5.61            | 296.01      | 5,036.92              | 65.12       | -150.66     | -66.25                  | 0.86                  | 0.83                 | 2.35                |
| 5,138.00              | 5.38            | 297.26      | 5,130.49              | 69.15       | -158.71     | -70.34                  | 0.28                  | -0.24                | 1.33                |
| 5,232.00              | 5.55            | 292.12      | 5,224.06              | 72.88       | -166.83     | -74.13                  | 0.55                  | 0.18                 | -5.47               |
| 5,327.00              | 5.53            | 289.17      | 5,318.62              | 76.11       | -175.41     | -77.43                  | 0.30                  | -0.02                | -3.11               |
| 5,421.00              | 6.34            | 294.60      | 5,412.11              | 79.76       | -184.41     | -81.14                  | 1.05                  | 0.86                 | 5.78                |
| 5,516.00              | 6.53            | 295.53      | 5,506.52              | 84.27       | -194.05     | -85.73                  | 0.23                  | 0.20                 | 0.98                |
| 5,610.00              | 6.15            | 294.73      | 5,599.94              | 88.68       | -203.45     | -90.21                  | 0.42                  | -0.40                | -0.85               |
| 5,704.00              | 5.62            | 295.24      | 5,693.44              | 92.75       | -212.19     | -94.34                  | 0.57                  | -0.56                | 0.54                |
| 5,798.00              | 5.41            | 293.13      | 5,787.01              | 96.46       | -220.43     | -98.11                  | 0.31                  | -0.22                | -2.24               |
| 5,893.00              | 5.92            | 290.13      | 5,881.55              | 99.90       | -229.14     | -101.62                 | 0.62                  | 0.54                 | -3.16               |
| 5,987.00              | 6.18            | 291.21      | 5,975.02              | 103.40      | -238.41     | -105.19                 | 0.30                  | 0.28                 | 1.15                |
| 6,082.00              | 6.17            | 290.39      | 6,069.47              | 107.03      | -247.97     | -108.89                 | 0.09                  | -0.01                | -0.86               |
| 6,176.00              | 5.83            | 291.36      | 6,162.96              | 110.53      | -257.15     | -112.45                 | 0.38                  | -0.36                | 1.03                |
| 6,271.00              | 6.47            | 289.49      | 6,257.41              | 114.07      | -266.69     | -116.07                 | 0.71                  | 0.67                 | -1.97               |
| 6,365.00              | 6.46            | 296.07      | 6,350.81              | 118.16      | -276.43     | -120.23                 | 0.79                  | -0.01                | 7.00                |
| 6,459.00              | 6.16            | 293.94      | 6,444.24              | 122.53      | -285.79     | -124.67                 | 0.40                  | -0.32                | -2.27               |
| 6,553.00              | 5.61            | 292.80      | 6,537.75              | 126.36      | -294.63     | -128.57                 | 0.60                  | -0.59                | -1.21               |
| 6,648.00              | 5.66            | 292.80      | 6,632.29              | 129.97      | -303.23     | -132.25                 | 0.05                  | 0.05                 | 0.00                |
| 6,742.00              | 5.17            | 292.38      | 6,725.87              | 133.38      | -311.42     | -135.72                 | 0.52                  | -0.52                | -0.45               |
| 6,836.00              | 5.26            | 297.41      | 6,819.48              | 136.98      | -319.16     | -139.37                 | 0.50                  | 0.10                 | 5.35                |
| 6,931.00              | 5.01            | 294.68      | 6,914.10              | 140.72      | -326.80     | -143.16                 | 0.37                  | -0.26                | -2.87               |
| 7,025.00              | 5.38            | 294.16      | 7,007.71              | 144.23      | -334.55     | -146.74                 | 0.40                  | 0.39                 | -0.55               |
| 7,120.00              | 6.00            | 295.60      | 7,102.24              | 148.20      | -343.09     | -150.77                 | 0.67                  | 0.65                 | 1.52                |
| 7,214.00              | 5.95            | 294.39      | 7,195.73              | 152.34      | -351.96     | -154.97                 | 0.14                  | -0.05                | -1.29               |
| 7,309.00              | 5.17            | 292.00      | 7,290.29              | 155.97      | -360.41     | -158.67                 | 0.86                  | -0.82                | -2.52               |
| 7,403.00              | 4.75            | 291.62      | 7,383.93              | 158.99      | -367.96     | -161.75                 | 0.45                  | -0.45                | -0.40               |
| 7,498.00              | 5.78            | 296.66      | 7,478.53              | 162.59      | -375.89     | -165.41                 | 1.19                  | 1.08                 | 5.31                |
| 7,592.00              | 5.47            | 293.70      | 7,572.08              | 166.51      | -384.22     | -169.39                 | 0.45                  | -0.33                | -3.15               |
| 7,686.00              | 4.82            | 294.36      | 7,665.70              | 169.94      | -391.92     | -172.88                 | 0.69                  | -0.69                | 0.70                |
| 7,780.00              | 4.08            | 293.54      | 7,759.42              | 172.91      | -398.58     | -175.89                 | 0.79                  | -0.79                | -0.87               |
| 7,874.00              | 3.68            | 290.75      | 7,853.20              | 175.31      | -404.47     | -178.34                 | 0.47                  | -0.43                | -2.97               |
| 7,969.00              | 3.32            | 289.97      | 7,948.02              | 177.33      | -409.91     | -180.40                 | 0.38                  | -0.38                | -0.82               |
| 8,063.00              | 2.62            | 287.37      | 8,041.90              | 178.90      | -414.52     | -182.01                 | 0.76                  | -0.74                | -2.77               |
| 8,158.00              | 2.78            | 287.49      | 8,136.79              | 180.24      | -418.79     | -183.38                 | 0.17                  | 0.17                 | 0.13                |

Company: ConocoPhillips  
Project: Lea County, NM  
Site: War Hammer 25 Fed Com  
Well: W2 2H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well W2 2H  
TVD Reference: Well @ 3166.00usft (H&P 486 RKB: 27' + GL: 3139')  
MD Reference: Well @ 3166.00usft (H&P 486 RKB: 27' + GL: 3139')  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Gyrodata NWDB

Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| 8,243.00              | 2.27            | 286.38      | 8,221.71              | 181.34       | -422.37      | -184.50                 | 0.60                  | -0.60                | -1.31               |
| 8,341.00              | 2.17            | 283.06      | 8,319.63              | 182.30       | -426.04      | -185.50                 | 0.17                  | -0.10                | -3.39               |
| 8,435.00              | 1.85            | 288.26      | 8,413.58              | 183.18       | -429.21      | -186.40                 | 0.39                  | -0.34                | 5.53                |
| 8,530.00              | 1.60            | 298.47      | 8,508.53              | 184.29       | -431.83      | -187.53                 | 0.42                  | -0.26                | 10.75               |
| 8,624.00              | 1.41            | 294.22      | 8,602.50              | 185.39       | -434.04      | -188.65                 | 0.23                  | -0.20                | -4.52               |
| 8,719.00              | 1.27            | 288.43      | 8,697.47              | 186.21       | -436.11      | -189.47                 | 0.20                  | -0.15                | -6.09               |
| 8,813.00              | 1.06            | 275.20      | 8,791.46              | 186.62       | -437.96      | -189.90                 | 0.36                  | -0.22                | -14.07              |
| 8,908.00              | 0.93            | 272.11      | 8,886.44              | 186.72       | -439.61      | -190.02                 | 0.15                  | -0.14                | -3.25               |
| 9,002.00              | 1.05            | 274.22      | 8,980.43              | 186.81       | -441.23      | -190.12                 | 0.13                  | 0.13                 | 2.24                |
| 9,096.00              | 1.38            | 277.28      | 9,074.41              | 187.02       | -443.21      | -190.34                 | 0.36                  | 0.35                 | 3.26                |
| 9,191.00              | 1.56            | 279.51      | 9,169.37              | 187.38       | -445.62      | -190.72                 | 0.20                  | 0.19                 | 2.35                |
| 9,285.00              | 2.58            | 267.00      | 9,263.31              | 187.48       | -448.99      | -190.85                 | 1.18                  | 1.09                 | -13.31              |
| 9,380.00              | 2.01            | 265.56      | 9,358.24              | 187.24       | -452.79      | -190.63                 | 0.60                  | -0.60                | -1.52               |
| 9,474.00              | 1.29            | 263.84      | 9,452.20              | 187.00       | -455.49      | -190.41                 | 0.77                  | -0.77                | -1.83               |
| 9,568.00              | 1.93            | 256.67      | 9,546.16              | 186.52       | -458.08      | -189.95                 | 0.71                  | 0.68                 | -7.63               |
| 9,662.00              | 1.92            | 243.11      | 9,640.11              | 185.44       | -461.02      | -188.90                 | 0.48                  | -0.01                | -14.43              |
| 9,757.00              | 1.80            | 210.48      | 9,735.06              | 183.44       | -463.20      | -186.91                 | 1.11                  | -0.13                | -34.35              |
| 9,850.00              | 2.69            | 189.75      | 9,827.99              | 180.03       | -464.31      | -183.51                 | 1.28                  | 0.96                 | -22.29              |
| 9,944.00              | 2.00            | 148.72      | 9,921.91              | 176.45       | -463.83      | -179.93                 | 1.88                  | -0.73                | -43.65              |
| 10,039.00             | 1.31            | 131.43      | 10,016.88             | 174.32       | -462.16      | -177.78                 | 0.89                  | -0.73                | -18.20              |
| 10,133.00             | 1.07            | 132.84      | 10,110.85             | 173.01       | -460.71      | -176.46                 | 0.26                  | -0.26                | 1.50                |
| 10,228.00             | 1.12            | 133.96      | 10,205.84             | 171.76       | -459.39      | -175.20                 | 0.06                  | 0.05                 | 1.18                |
| 10,322.00             | 0.55            | 101.50      | 10,299.83             | 171.03       | -458.28      | -174.47                 | 0.77                  | -0.61                | -34.53              |
| 10,416.00             | 0.20            | 121.92      | 10,393.83             | 170.86       | -457.70      | -174.29                 | 0.39                  | -0.37                | 21.72               |
| 10,511.00             | 0.66            | 234.56      | 10,488.82             | 170.45       | -458.01      | -173.88                 | 0.80                  | 0.48                 | 118.57              |
| 10,605.00             | 0.87            | 235.47      | 10,582.82             | 169.73       | -459.04      | -173.17                 | 0.22                  | 0.22                 | 0.97                |
| 10,699.00             | 1.81            | 278.92      | 10,676.79             | 169.56       | -461.09      | -173.01                 | 1.41                  | 1.00                 | 46.22               |
| 10,794.00             | 2.90            | 282.44      | 10,771.71             | 170.31       | -464.92      | -173.79                 | 1.16                  | 1.15                 | 3.71                |
| 10,888.00             | 3.62            | 281.69      | 10,865.56             | 171.42       | -470.15      | -174.95                 | 0.77                  | 0.77                 | -0.80               |
| 10,982.00             | 2.80            | 260.29      | 10,959.41             | 171.64       | -475.32      | -175.20                 | 1.53                  | -0.87                | -22.77              |
| 11,077.00             | 3.25            | 242.21      | 11,054.28             | 169.99       | -479.99      | -173.59                 | 1.10                  | -0.47                | -19.03              |
| 11,171.00             | 1.88            | 255.00      | 11,148.18             | 168.35       | -483.83      | -171.97                 | 1.57                  | -1.46                | 13.61               |
| 11,265.00             | 1.51            | 235.70      | 11,242.14             | 167.25       | -486.35      | -170.90                 | 0.72                  | -0.39                | -20.53              |
| 11,360.00             | 1.44            | 203.15      | 11,337.11             | 165.45       | -487.85      | -169.10                 | 0.87                  | -0.07                | -34.26              |
| 11,454.00             | 1.73            | 191.48      | 11,431.08             | 162.97       | -488.60      | -166.63                 | 0.46                  | 0.31                 | -12.41              |
| 11,548.00             | 1.80            | 185.84      | 11,525.03             | 160.11       | -489.03      | -163.78                 | 0.20                  | 0.07                 | -6.00               |
| 11,643.00             | 1.49            | 184.51      | 11,620.00             | 157.40       | -489.28      | -161.06                 | 0.33                  | -0.33                | -1.40               |
| 11,737.00             | 1.73            | 197.41      | 11,713.96             | 154.82       | -489.80      | -158.50                 | 0.46                  | 0.26                 | 13.72               |
| 11,831.00             | 1.75            | 198.79      | 11,807.91             | 152.11       | -490.69      | -155.79                 | 0.05                  | 0.02                 | 1.47                |
| 11,926.00             | 1.73            | 200.45      | 11,902.87             | 149.40       | -491.65      | -153.08                 | 0.06                  | -0.02                | 1.75                |
| 12,020.00             | 1.74            | 200.46      | 11,996.83             | 146.73       | -492.65      | -150.42                 | 0.01                  | 0.01                 | 0.01                |
| 12,114.00             | 1.74            | 202.27      | 12,090.78             | 144.07       | -493.69      | -147.77                 | 0.06                  | 0.00                 | 1.93                |

Company: ConocoPhillips  
Project: Lea County, NM  
Site: War Hammer 25 Fed Com  
Well: W2 2H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well W2 2H  
TVD Reference: Well @ 3166.00usft (H&P 486 RKB: 27' + GL: 3139')  
MD Reference: Well @ 3166.00usft (H&P 486 RKB: 27' + GL: 3139')  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Gyrodata NWDB

Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| 12,150.00             | 1.85            | 202.73      | 12,126.77             | -143.03      | -494.12      | -146.73                 | 0.31                  | 0.31                 | 1.28                |
| 12,198.26             | 1.95            | 205.58      | 12,175.00             | 141.57       | -494.78      | -145.28                 | 0.28                  | 0.20                 | 5.91                |
| 7 5/8"                |                 |             |                       |              |              |                         |                       |                      |                     |
| 12,266.00             | 2.09            | 209.13      | 12,242.70             | 139.45       | -495.87      | -143.17                 | 0.28                  | 0.21                 | 5.24                |
| 12,355.00             | 10.02           | 175.91      | 12,331.15             | 130.30       | -496.11      | -134.02                 | 9.38                  | 8.91                 | -37.33              |
| 12,387.00             | 12.12           | 170.81      | 12,362.55             | 124.20       | -495.38      | -127.92                 | 7.23                  | 6.56                 | -15.94              |
| 12,415.00             | 13.25           | 167.74      | 12,389.87             | 118.17       | -494.23      | -121.87                 | 4.70                  | 4.04                 | -10.96              |
| 12,447.00             | 17.85           | 159.82      | 12,420.69             | 109.97       | -491.75      | -113.66                 | 15.80                 | 14.37                | -24.75              |
| 12,478.00             | 24.46           | 157.95      | 12,449.59             | 99.55        | -487.70      | -103.21                 | 21.43                 | 21.32                | -6.03               |
| 12,510.00             | 30.28           | 164.09      | 12,478.00             | 85.64        | -483.00      | -89.26                  | 20.19                 | 18.19                | 19.19               |
| 12,542.00             | 34.17           | 168.50      | 12,505.07             | 69.07        | -478.99      | -72.66                  | 14.20                 | 12.16                | 13.78               |
| 12,568.00             | 38.70           | 167.75      | 12,525.98             | 53.96        | -475.81      | -57.53                  | 17.51                 | 17.42                | -2.88               |
| 12,599.00             | 44.37           | 165.87      | 12,549.18             | 33.96        | -471.10      | -37.50                  | 18.73                 | 18.29                | -6.06               |
| 12,631.00             | 47.88           | 167.28      | 12,571.35             | 11.53        | -465.76      | -15.02                  | 11.42                 | 10.97                | 4.41                |
| 12,663.00             | 52.01           | 167.29      | 12,591.94             | -12.36       | -460.37      | 8.90                    | 12.91                 | 12.91                | 0.03                |
| 12,694.00             | 55.83           | 168.00      | 12,610.19             | -36.83       | -455.01      | 33.41                   | 12.46                 | 12.32                | 2.29                |
| 12,726.00             | 59.50           | 167.07      | 12,627.31             | -63.22       | -449.17      | 59.85                   | 11.73                 | 11.47                | -2.91               |
| 12,758.00             | 62.68           | 166.83      | 12,642.77             | -90.51       | -442.85      | 87.18                   | 9.96                  | 9.94                 | -0.75               |
| 12,789.00             | 65.06           | 166.88      | 12,656.43             | -117.61      | -436.52      | 114.33                  | 7.68                  | 7.68                 | 0.16                |
| 12,821.00             | 66.60           | 166.86      | 12,669.53             | -146.04      | -429.89      | 142.81                  | 4.81                  | 4.81                 | -0.06               |
| 12,853.00             | 67.74           | 167.20      | 12,681.94             | -174.78      | -423.27      | 171.60                  | 3.69                  | 3.56                 | 1.06                |
| 12,884.00             | 69.82           | 167.78      | 12,693.16             | -202.99      | -417.01      | 199.86                  | 6.93                  | 6.71                 | 1.87                |
| 12,916.00             | 74.98           | 167.63      | 12,702.84             | -232.78      | -410.52      | 229.70                  | 16.13                 | 16.12                | -0.47               |
| 12,951.00             | 80.40           | 167.31      | 12,710.29             | -266.15      | -403.10      | 263.12                  | 15.51                 | 15.49                | -0.91               |
| 12,982.00             | 83.28           | 167.99      | 12,714.69             | -296.12      | -396.54      | 293.14                  | 9.54                  | 9.29                 | 2.19                |
| 13,014.00             | 86.09           | 169.00      | 12,717.66             | -327.34      | -390.18      | 324.41                  | 9.33                  | 8.78                 | 3.16                |
| 13,078.00             | 87.66           | 169.43      | 12,721.15             | -390.12      | -378.23      | 387.27                  | 2.54                  | 2.45                 | 0.67                |
| 13,172.00             | 89.09           | 171.60      | 12,723.81             | -482.79      | -362.74      | 480.05                  | 2.76                  | 1.52                 | 2.31                |
| 13,267.00             | 89.37           | 171.74      | 12,725.09             | -576.78      | -348.98      | 574.14                  | 0.33                  | 0.29                 | 0.15                |
| 13,362.00             | 91.75           | 172.97      | 12,724.16             | -670.92      | -336.34      | 668.38                  | 2.82                  | 2.51                 | 1.29                |
| 13,457.00             | 91.47           | 172.93      | 12,721.49             | -765.16      | -324.69      | 762.70                  | 0.30                  | -0.29                | -0.04               |
| 13,552.00             | 89.62           | 173.31      | 12,720.59             | -859.47      | -313.31      | 857.09                  | 1.99                  | -1.95                | 0.40                |
| 13,646.00             | 91.33           | 175.91      | 12,719.81             | -953.04      | -304.48      | 950.73                  | 3.31                  | 1.82                 | 2.77                |
| 13,741.00             | 90.71           | 178.09      | 12,718.12             | -1,047.89    | -299.51      | 1,045.61                | 2.39                  | -0.65                | 2.29                |
| 13,836.00             | 90.46           | 176.88      | 12,717.15             | -1,142.79    | -295.34      | 1,140.54                | 1.30                  | -0.26                | -1.27               |
| 13,931.00             | 92.28           | 179.18      | 12,714.88             | -1,237.70    | -292.08      | 1,235.47                | 3.09                  | 1.92                 | 2.42                |
| 14,026.00             | 89.12           | 177.89      | 12,713.72             | -1,332.64    | -289.65      | 1,330.43                | 3.59                  | -3.33                | -1.36               |
| 14,121.00             | 88.22           | 178.04      | 12,715.92             | -1,427.56    | -286.28      | 1,425.37                | 0.96                  | -0.95                | 0.16                |
| 14,216.00             | 88.28           | 178.77      | 12,718.82             | -1,522.48    | -283.63      | 1,520.30                | 0.77                  | 0.06                 | 0.77                |
| 14,310.00             | 89.53           | 179.16      | 12,720.62             | -1,616.44    | -281.94      | 1,614.28                | 1.39                  | 1.33                 | 0.41                |
| 14,405.00             | 90.29           | 178.19      | 12,720.77             | -1,711.41    | -279.74      | 1,709.27                | 1.30                  | 0.80                 | -1.02               |
| 14,500.00             | 89.73           | 178.15      | 12,720.75             | -1,806.37    | -276.71      | 1,804.24                | 0.59                  | -0.59                | -0.04               |

Company: ConocoPhillips  
Project: Lea County, NM  
Site: War Hammer 25 Fed Com  
Well: W2 2H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well W2 2H  
TVD Reference: Well @ 3166.00usft (H&P 486 RKB: 27' + GL: 3139')  
MD Reference: Well @ 3166.00usft (H&P 486 RKB: 27' + GL: 3139')  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Gyrodata NWDB

Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| 14,595.00             | 90.24           | 179.11      | 12,720.78             | -1,901.34    | -274.43      | 1,899.22                | 1.14                  | 0.54                 | 1.01                |
| 14,690.00             | 91.22           | 177.80      | 12,719.57             | -1,996.29    | -271.87      | 1,994.19                | 1.72                  | 1.03                 | -1.38               |
| 14,785.00             | 89.90           | 176.87      | 12,718.64             | -2,091.18    | -267.46      | 2,089.11                | 1.70                  | -1.39                | -0.98               |
| 14,879.00             | 90.80           | 178.62      | 12,718.06             | -2,185.10    | -263.76      | 2,183.06                | 2.09                  | 0.96                 | 1.86                |
| 14,974.00             | 90.18           | 179.56      | 12,717.25             | -2,280.08    | -262.25      | 2,278.05                | 1.19                  | -0.65                | 0.99                |
| 15,069.00             | 90.04           | 177.54      | 12,717.07             | -2,375.05    | -259.85      | 2,373.03                | 2.13                  | -0.15                | -2.13               |
| 15,164.00             | 91.11           | 177.21      | 12,716.11             | -2,469.94    | -255.49      | 2,467.96                | 1.18                  | 1.13                 | -0.35               |
| 15,259.00             | 90.24           | 176.04      | 12,715.00             | -2,564.77    | -249.90      | 2,562.82                | 1.53                  | -0.92                | -1.23               |
| 15,354.00             | 89.73           | 178.82      | 12,715.02             | -2,659.66    | -245.64      | 2,657.75                | 2.98                  | -0.54                | 2.93                |
| 15,449.00             | 90.74           | 177.91      | 12,714.63             | -2,754.62    | -242.93      | 2,752.72                | 1.43                  | 1.06                 | -0.96               |
| 15,543.00             | 90.66           | 177.25      | 12,713.48             | -2,848.53    | -238.96      | 2,846.66                | 0.71                  | -0.09                | -0.70               |
| 15,638.00             | 90.58           | 178.92      | 12,712.45             | -2,943.47    | -235.79      | 2,941.62                | 1.76                  | -0.08                | 1.76                |
| 15,733.00             | 90.24           | 182.07      | 12,711.77             | -3,038.45    | -236.61      | 3,036.59                | 3.33                  | -0.36                | 3.32                |
| 15,828.00             | 90.85           | 179.00      | 12,710.87             | -3,133.43    | -237.50      | 3,131.56                | 3.29                  | 0.64                 | -3.23               |
| 15,923.00             | 91.19           | 182.07      | 12,709.18             | -3,228.40    | -238.38      | 3,226.52                | 3.25                  | 0.36                 | 3.23                |
| 16,018.00             | 90.49           | 180.24      | 12,707.79             | -3,323.37    | -240.30      | 3,321.47                | 2.06                  | -0.74                | -1.93               |
| 16,113.00             | 90.07           | 179.05      | 12,707.32             | -3,418.36    | -239.71      | 3,416.47                | 1.33                  | -0.44                | -1.25               |
| 16,208.00             | 89.15           | 176.87      | 12,707.97             | -3,513.29    | -236.33      | 3,511.42                | 2.49                  | -0.97                | -2.29               |
| 16,302.00             | 90.69           | 179.34      | 12,708.10             | -3,607.23    | -233.22      | 3,605.38                | 3.10                  | 1.64                 | 2.63                |
| 16,397.00             | 91.16           | 180.27      | 12,706.57             | -3,702.22    | -232.90      | 3,700.36                | 1.10                  | 0.49                 | 0.98                |
| 16,492.00             | 91.72           | 179.71      | 12,704.18             | -3,797.19    | -232.88      | 3,795.33                | 0.83                  | 0.59                 | -0.59               |
| 16,587.00             | 91.39           | 181.06      | 12,701.60             | -3,892.15    | -233.52      | 3,890.28                | 1.46                  | -0.35                | 1.42                |
| 16,682.00             | 90.85           | 181.72      | 12,699.74             | -3,987.10    | -235.82      | 3,985.22                | 0.90                  | -0.57                | 0.69                |
| 16,776.00             | 90.55           | 177.60      | 12,698.59             | -4,081.07    | -235.27      | 4,079.19                | 4.39                  | -0.32                | -4.38               |
| 16,871.00             | 89.68           | 178.27      | 12,698.40             | -4,176.01    | -231.84      | 4,174.15                | 1.16                  | -0.92                | 0.71                |
| 16,966.00             | 90.77           | 180.70      | 12,698.03             | -4,270.99    | -230.99      | 4,269.14                | 2.80                  | 1.15                 | 2.56                |
| 17,061.00             | 90.38           | 181.63      | 12,697.08             | -4,365.97    | -232.92      | 4,364.10                | 1.06                  | -0.41                | 0.98                |
| 17,156.00             | 90.07           | 182.71      | 12,696.70             | -4,460.90    | -236.52      | 4,459.00                | 1.18                  | -0.33                | 1.14                |
| 17,250.00             | 89.17           | 180.80      | 12,697.33             | -4,554.85    | -239.40      | 4,552.92                | 2.25                  | -0.96                | -2.03               |
| 17,345.00             | 90.43           | 177.31      | 12,697.66             | -4,649.82    | -237.83      | 4,647.90                | 3.91                  | 1.33                 | -3.67               |
| 17,440.00             | 91.97           | 176.70      | 12,695.67             | -4,744.66    | -232.87      | 4,742.78                | 1.74                  | 1.62                 | -0.64               |
| 17,535.00             | 90.80           | 176.20      | 12,693.37             | -4,839.45    | -226.99      | 4,837.61                | 1.34                  | -1.23                | -0.53               |
| 17,630.00             | 89.73           | 176.13      | 12,692.93             | -4,934.23    | -220.63      | 4,932.44                | 1.13                  | -1.13                | -0.07               |
| 17,724.00             | 90.41           | 179.01      | 12,692.82             | -5,028.14    | -216.65      | 5,026.37                | 3.15                  | 0.72                 | 3.06                |
| 17,819.00             | 89.68           | 177.59      | 12,692.75             | -5,123.09    | -213.83      | 5,121.35                | 1.68                  | -0.77                | -1.49               |
| 17,914.00             | 90.66           | 178.03      | 12,692.46             | -5,218.02    | -210.20      | 5,216.30                | 1.13                  | 1.03                 | 0.46                |
| 18,008.00             | 90.38           | 177.37      | 12,691.61             | -5,311.94    | -206.43      | 5,310.24                | 0.76                  | -0.30                | -0.70               |
| 18,102.00             | 88.56           | 178.75      | 12,692.48             | -5,405.88    | -203.24      | 5,404.20                | 2.43                  | -1.94                | 1.47                |
| 18,197.00             | 91.55           | 178.99      | 12,692.39             | -5,500.85    | -201.37      | 5,499.18                | 3.16                  | 3.15                 | 0.25                |
| 18,292.00             | 91.08           | 181.85      | 12,690.21             | -5,595.81    | -202.07      | 5,594.14                | 3.05                  | -0.49                | 3.01                |
| 18,387.00             | 90.43           | 182.49      | 12,688.96             | -5,690.73    | -205.66      | 5,689.03                | 0.96                  | -0.68                | 0.67                |
| 18,482.00             | 89.17           | 182.33      | 12,689.29             | -5,785.65    | -209.66      | 5,783.91                | 1.34                  | -1.33                | -0.17               |

Company: ConocoPhillips  
Project: Lea County, NM  
Site: War Hammer 25 Fed Com  
Well: W2 2H  
Wellbore: Original Hole  
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Local Co-ordinate Reference: Well W2 2H  
TVD Reference: Well @ 3166.00usft (H&P 485 RKB: 27' + GL: 3139')  
MD Reference: Well @ 3166.00usft (H&P 485 RKB: 27' + GL: 3139')  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Gyrodata NWDB

#### Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| 18,577.00             | 91.02           | 184.87      | 12,689.13             | -5,880.45    | -215.62      | 5,878.66                | 3.31                  | 1.95                 | 2.67                |
| 18,671.00             | 90.38           | 183.40      | 12,687.98             | -5,974.19    | -222.40      | 5,972.36                | 1.71                  | -0.68                | -1.56               |
| 18,766.00             | 88.03           | 182.42      | 12,689.30             | -6,069.05    | -227.22      | 6,067.18                | 2.68                  | -2.47                | -1.03               |
| 18,861.00             | 89.29           | 181.63      | 12,691.52             | -6,163.97    | -230.58      | 6,162.06                | 1.57                  | 1.33                 | -0.83               |
| 18,956.00             | 88.05           | 181.46      | 12,693.73             | -6,258.90    | -233.14      | 6,256.98                | 1.32                  | -1.31                | -0.18               |
| 19,051.00             | 87.49           | 181.88      | 12,697.42             | -6,353.79    | -235.91      | 6,351.84                | 0.74                  | -0.59                | 0.44                |
| 19,146.00             | 88.50           | 181.50      | 12,700.75             | -6,448.69    | -238.71      | 6,446.72                | 1.14                  | 1.06                 | -0.40               |
| 19,241.00             | 90.18           | 181.83      | 12,701.84             | -6,543.64    | -241.47      | 6,541.64                | 1.80                  | 1.77                 | 0.35                |
| 19,336.00             | 90.52           | 181.28      | 12,701.26             | -6,638.60    | -244.04      | 6,636.59                | 0.68                  | 0.36                 | -0.58               |
| 19,431.00             | 90.85           | 184.03      | 12,700.12             | -6,733.49    | -248.44      | 6,731.43                | 2.92                  | 0.35                 | 2.89                |
| 19,526.00             | 90.49           | 183.80      | 12,699.01             | -6,828.26    | -254.93      | 6,826.15                | 0.45                  | -0.38                | -0.24               |
| 19,610.00             | 90.21           | 184.46      | 12,698.50             | -6,912.04    | -260.98      | 6,909.88                | 0.85                  | -0.33                | 0.79                |
| 19,670.00             | 90.21           | 184.46      | 12,698.28             | -6,971.86    | -265.64      | 6,969.67                | 0.00                  | 0.00                 | 0.00                |

#### Casing Points

| Measured Depth (usft) | Vertical Depth (usft) | Name    | Casing Diameter (in) | Hole Diameter (in) |
|-----------------------|-----------------------|---------|----------------------|--------------------|
|                       | 12,804.00             | 5"      | 5.50                 | 6.00               |
| 790.13                | 790.00                | 13 3/8" | 13.37                | 17.50              |
| 4,790.15              | 4,784.00              | 9 5/8"  | 9.62                 | 12.25              |
| 12,198.26             | 12,175.00             | 7 5/8"  | 5.50                 | 6.00               |

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