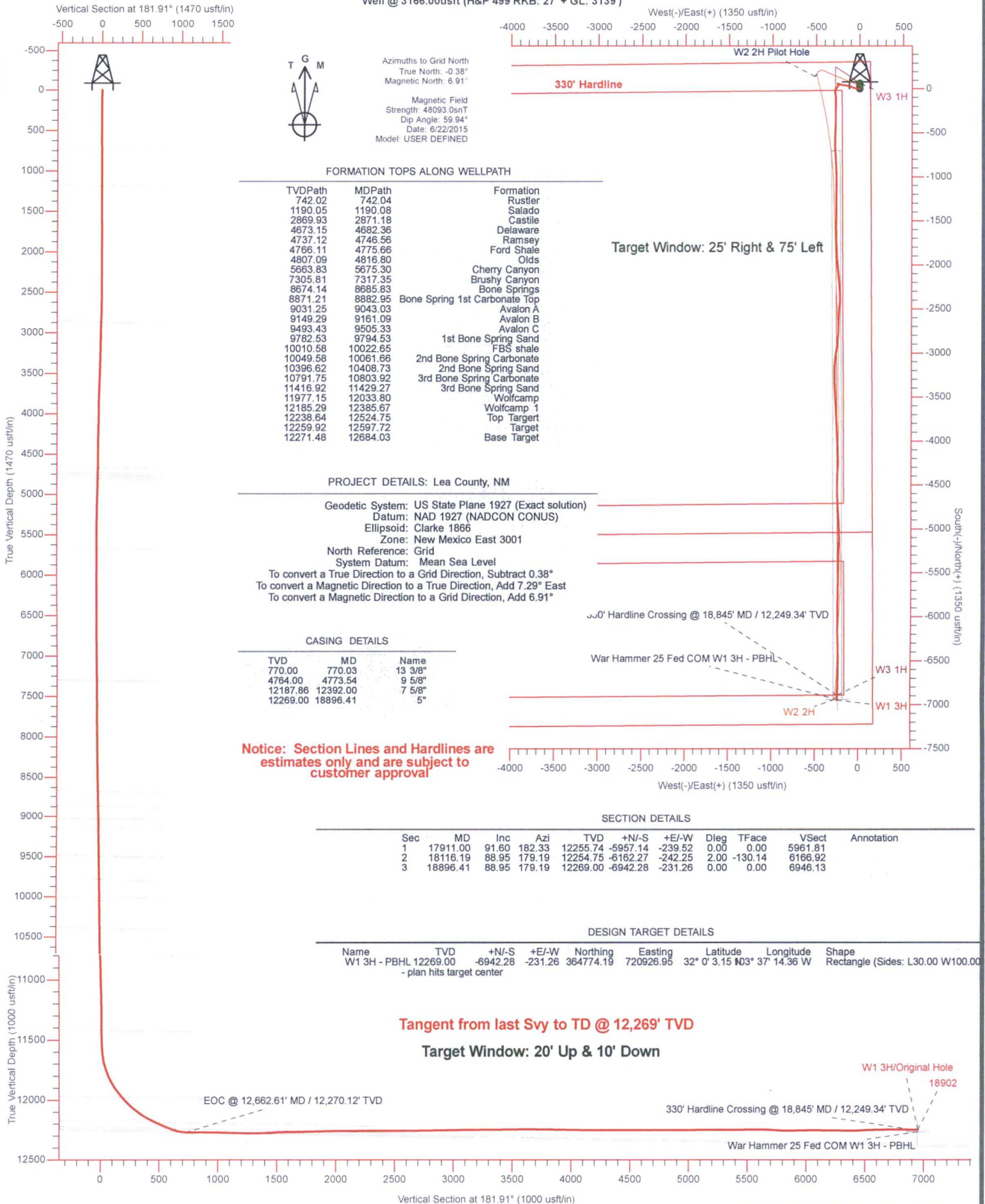


Plan: Design #10 (W1 3H/Original Hole)  
Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139')





## ConocoPhillips

Lea County, NM  
War Hammer 25 Fed Com  
W1 3H

Original Hole

Survey: Survey #1

## Standard Survey Report

06 July, 2015

HOBBS OCD  
AUG 02 2017  
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**gyro/data**  
Precision Wellbore Placement



|           |                       |                              |                                                   |
|-----------|-----------------------|------------------------------|---------------------------------------------------|
| Company:  | ConocoPhillips        | Local Co-ordinate Reference: | Well W1 3H                                        |
| Project:  | Lea County, NM        | TVD Reference:               | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Site:     | War Hammer 25 Fed Com | MD Reference:                | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Well:     | W1 3H                 | North Reference:             | Grid                                              |
| Wellbore: | Original Hole         | Survey Calculation Method:   | Minimum Curvature                                 |
| Design:   | Original Hole         | Database:                    | Gyrodata NWDB                                     |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Lea County, NM                       |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| 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 | Latitude:         | 32° 1' 12.49 N   |
| From:                 | Map       | Easting:              | 721,157.76 usft | Longitude:        | 103° 37' 11.14 W |
| Position Uncertainty: | 0.00 usft | Slot Radius:          | 13.20 in        | Grid Convergence: | 0.38 °           |

|                      |       |           |                     |                 |               |                  |
|----------------------|-------|-----------|---------------------|-----------------|---------------|------------------|
| Well                 | W1 3H |           |                     |                 |               |                  |
| Well Position        | +N/-S | 0.00 usft | Northing:           | 371,716.47 usft | Latitude:     | 32° 1' 11.84 N   |
|                      | +E/-W | 0.00 usft | Easting:            | 721,158.21 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 (°) | Dip Angle (°) | Field Strength (nT) |
|           | User Defined  | 6/22/2015   | 7.29            | 59.94         | 48,093              |

|                   |                         |              |              |               |      |
|-------------------|-------------------------|--------------|--------------|---------------|------|
| Design            | Original Hole           |              |              |               |      |
| Audit Notes:      |                         |              |              |               |      |
| Version:          | 1.0                     | Phase:       | ACTUAL       | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |      |
|                   | 0.00                    | 0.00         | 0.00         | 179.66        |      |

|                |               |                           |                    |                           |  |
|----------------|---------------|---------------------------|--------------------|---------------------------|--|
| Survey Program | Date 7/6/2015 |                           |                    |                           |  |
| From (usft)    | To (usft)     | Survey (Wellbore)         | Tool Name          | Description               |  |
| 133.00         | 18,902.00     | Survey #1 (Original Hole) | MWD - ISCWSA - COP | MWD - Standard ISCWSA COP |  |

|                             |                 |             |                       |              |              |                         |                       |                      |                     |  |
|-----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|--|
| 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) |  |
| 0.00                        | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |  |
| 12335.00                    |                 |             |                       |              |              |                         |                       |                      |                     |  |
| 1.00                        | 0.00            | 21.90       | 1.00                  | 0.00         | 0.00         | 0.00                    | 0.30                  | 0.30                 | 0.00                |  |
| 770.00 - 4764.00 - 12065.00 |                 |             |                       |              |              |                         |                       |                      |                     |  |
| 133.00                      | 0.40            | 21.90       | 133.00                | 0.43         | 0.17         | -0.43                   | 0.30                  | 0.30                 | 0.00                |  |
| 196.00                      | 0.50            | 71.10       | 196.00                | 0.72         | 0.52         | -0.72                   | 0.61                  | 0.16                 | 78.10               |  |
| 258.00                      | 0.40            | 107.90      | 258.00                | 0.74         | 0.98         | -0.74                   | 0.48                  | -0.16                | 59.35               |  |
| 319.00                      | 0.50            | 77.90       | 318.99                | 0.74         | 1.44         | -0.73                   | 0.41                  | 0.16                 | -49.18              |  |
| 381.00                      | 0.50            | 88.50       | 380.99                | 0.80         | 1.97         | -0.79                   | 0.15                  | 0.00                 | 17.10               |  |

|           |                       |                              |                                                   |
|-----------|-----------------------|------------------------------|---------------------------------------------------|
| Company:  | ConocoPhillips        | Local Co-ordinate Reference: | Well W1 3H                                        |
| Project:  | Lea County, NM        | TVD Reference:               | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Site:     | War Hammer 25 Fed Com | MD Reference:                | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Well:     | W1 3H                 | North Reference:             | Grid                                              |
| Wellbore: | Original Hole         | Survey Calculation Method:   | Minimum Curvature                                 |
| Design:   | Original Hole         | Database:                    | Gyrodatta 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) |
| 467.00                | 0.60            | 117.10      | 466.99                | 0.60         | 2.75         | -0.59                   | 0.34                  | 0.12                 | 33.26               |
| 552.00                | 0.80            | 113.30      | 551.98                | 0.17         | 3.69         | -0.14                   | 0.24                  | 0.24                 | -4.47               |
| 637.00                | 0.50            | 117.70      | 636.98                | -0.24        | 4.57         | 0.27                    | 0.36                  | -0.35                | 5.18                |
| 722.00                | 0.40            | 144.90      | 721.97                | -0.66        | 5.06         | 0.69                    | 0.27                  | -0.12                | 32.00               |
| 765.00                | 0.40            | 143.70      | 764.97                | -0.90        | 5.24         | 0.93                    | 0.02                  | 0.00                 | -2.79               |
| 885.00                | 0.40            | 134.73      | 884.97                | -1.53        | 5.79         | 1.57                    | 0.05                  | 0.00                 | -7.47               |
| 976.00                | 0.30            | 141.82      | 975.97                | -1.94        | 6.16         | 1.98                    | 0.12                  | -0.11                | 7.79                |
| 1,066.00              | 0.20            | 198.24      | 1,065.97              | -2.28        | 6.25         | 2.31                    | 0.28                  | -0.11                | 62.69               |
| 1,157.00              | 0.10            | 127.19      | 1,156.97              | -2.48        | 6.27         | 2.51                    | 0.21                  | -0.11                | -78.08              |
| 1,249.00              | 0.20            | 152.29      | 1,248.97              | -2.67        | 6.41         | 2.70                    | 0.13                  | 0.11                 | 27.28               |
| 1,344.00              | 0.30            | 179.51      | 1,343.97              | -3.06        | 6.49         | 3.10                    | 0.16                  | 0.11                 | 28.65               |
| 1,438.00              | 0.30            | 206.39      | 1,437.96              | -3.53        | 6.38         | 3.57                    | 0.15                  | 0.00                 | 28.60               |
| 1,532.00              | 0.50            | 236.54      | 1,531.96              | -3.98        | 5.93         | 4.01                    | 0.30                  | 0.21                 | 32.07               |
| 1,627.00              | 0.50            | 240.34      | 1,626.96              | -4.41        | 5.22         | 4.44                    | 0.03                  | 0.00                 | 4.00                |
| 1,721.00              | 0.60            | 275.55      | 1,720.95              | -4.56        | 4.37         | 4.59                    | 0.37                  | 0.11                 | 37.46               |
| 1,815.00              | 0.50            | 248.23      | 1,814.95              | -4.67        | 3.50         | 4.69                    | 0.30                  | -0.11                | -29.06              |
| 1,909.00              | 0.70            | 271.23      | 1,908.94              | -4.81        | 2.55         | 4.82                    | 0.33                  | 0.21                 | 24.47               |
| 2,004.00              | 0.50            | 273.78      | 2,003.94              | -4.77        | 1.56         | 4.78                    | 0.21                  | -0.21                | 2.68                |
| 2,098.00              | 0.40            | 270.09      | 2,097.94              | -4.74        | 0.82         | 4.75                    | 0.11                  | -0.11                | -3.93               |
| 2,192.00              | 0.60            | 266.36      | 2,191.93              | -4.77        | 0.00         | 4.77                    | 0.22                  | 0.21                 | -3.97               |
| 2,287.00              | 0.40            | 254.13      | 2,286.93              | -4.89        | -0.82        | 4.89                    | 0.24                  | -0.21                | -12.87              |
| 2,381.00              | 0.60            | 277.95      | 2,380.93              | -4.92        | -1.62        | 4.91                    | 0.30                  | 0.21                 | 25.34               |
| 2,475.00              | 1.70            | 290.74      | 2,474.91              | -4.35        | -3.41        | 4.33                    | 1.19                  | 1.17                 | 13.61               |
| 2,570.00              | 3.10            | 289.26      | 2,569.82              | -3.01        | -7.15        | 2.97                    | 1.48                  | 1.47                 | -1.56               |
| 2,664.00              | 4.30            | 281.35      | 2,663.62              | -1.48        | -13.01       | 1.40                    | 1.38                  | 1.28                 | -8.41               |
| 2,758.00              | 5.40            | 284.52      | 2,757.28              | 0.33         | -20.75       | -0.45                   | 1.20                  | 1.17                 | 3.37                |
| 2,852.00              | 5.70            | 285.49      | 2,850.84              | 2.68         | -29.53       | -2.86                   | 0.33                  | 0.32                 | 1.03                |
| 2,947.00              | 5.40            | 286.69      | 2,945.40              | 5.23         | -38.35       | -5.45                   | 0.34                  | -0.32                | 1.26                |
| 3,041.00              | 5.30            | 282.73      | 3,038.99              | 7.45         | -46.83       | -7.73                   | 0.41                  | -0.11                | -4.21               |
| 3,135.00              | 5.10            | 280.23      | 3,132.60              | 9.15         | -55.17       | -9.48                   | 0.32                  | -0.21                | -2.66               |
| 3,230.00              | 4.60            | 280.01      | 3,227.26              | 10.56        | -63.08       | -10.94                  | 0.53                  | -0.53                | -0.23               |
| 3,324.00              | 4.00            | 288.46      | 3,321.00              | 12.26        | -69.90       | -12.67                  | 0.93                  | -0.64                | 8.99                |
| 3,419.00              | 4.80            | 293.80      | 3,415.72              | 14.91        | -76.68       | -15.37                  | 0.95                  | 0.84                 | 5.62                |
| 3,513.00              | 6.40            | 292.43      | 3,509.27              | 18.50        | -85.12       | -19.00                  | 1.71                  | 1.70                 | -1.46               |
| 3,607.00              | 6.30            | 296.96      | 3,602.69              | 22.83        | -94.56       | -23.39                  | 0.54                  | -0.11                | 4.82                |
| 3,702.00              | 6.30            | 293.36      | 3,697.12              | 27.26        | -103.99      | -27.88                  | 0.42                  | 0.00                 | -3.79               |
| 3,796.00              | 6.30            | 284.79      | 3,790.55              | 30.63        | -113.72      | -31.30                  | 1.00                  | 0.00                 | -9.12               |
| 3,890.00              | 6.40            | 280.78      | 3,883.98              | 32.92        | -123.85      | -33.66                  | 0.48                  | 0.11                 | -4.27               |
| 3,985.00              | 5.50            | 283.52      | 3,978.46              | 34.98        | -133.48      | -35.77                  | 0.99                  | -0.95                | 2.88                |
| 4,079.00              | 4.40            | 280.97      | 4,072.11              | 36.72        | -141.40      | -37.55                  | 1.19                  | -1.17                | -2.71               |
| 4,173.00              | 5.50            | 282.14      | 4,165.76              | 38.35        | -149.34      | -39.24                  | 1.18                  | 1.17                 | 1.24                |
| 4,267.00              | 5.10            | 279.37      | 4,259.36              | 39.98        | -157.87      | -40.91                  | 0.51                  | -0.43                | -2.95               |



|           |                       |                              |                                                   |
|-----------|-----------------------|------------------------------|---------------------------------------------------|
| Company:  | ConocoPhillips        | Local Co-ordinate Reference: | Well W1 3H                                        |
| Project:  | Lea County, NM        | TVD Reference:               | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Site:     | War Hammer 25 Fed Com | MD Reference:                | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Well:     | W1 3H                 | North Reference:             | Grid                                              |
| Wellbore: | Original Hole         | Survey Calculation Method:   | Minimum Curvature                                 |
| Design:   | Original Hole         | 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) |  |
| 4,362.00              | 5.30            | 275.72      | 4,353.97              | 41.10        | -166.40      | -42.09                  | 0.41                  | 0.21                 | -3.84               |  |
| 4,456.00              | 5.20            | 273.43      | 4,447.57              | 41.79        | -174.97      | -42.83                  | 0.25                  | -0.11                | -2.44               |  |
| 4,550.00              | 4.60            | 269.27      | 4,541.23              | 42.00        | -182.99      | -43.08                  | 0.74                  | -0.64                | -4.43               |  |
| 4,645.00              | 4.70            | 281.55      | 4,635.92              | 42.73        | -190.61      | -43.86                  | 1.05                  | 0.11                 | 12.93               |  |
| 4,728.00              | 4.90            | 288.98      | 4,718.63              | 44.56        | -197.30      | -45.73                  | 0.79                  | 0.24                 | 8.95                |  |
| 4,832.00              | 5.12            | 285.37      | 4,822.23              | 47.24        | -205.97      | -48.46                  | 0.37                  | 0.21                 | -3.47               |  |
| 4,895.00              | 5.08            | 285.65      | 4,884.98              | 48.73        | -211.37      | -49.99                  | 0.07                  | -0.06                | 0.44                |  |
| 4,989.00              | 5.23            | 287.98      | 4,978.60              | 51.18        | -219.45      | -52.48                  | 0.27                  | 0.16                 | 2.48                |  |
| 5,084.00              | 4.26            | 296.42      | 5,073.28              | 54.08        | -226.73      | -55.43                  | 1.26                  | -1.02                | 8.88                |  |
| 5,178.00              | 4.08            | 282.26      | 5,167.03              | 56.35        | -233.13      | -57.73                  | 1.11                  | -0.19                | -15.06              |  |
| 5,273.00              | 3.11            | 282.85      | 5,261.84              | 57.64        | -238.94      | -59.06                  | 1.02                  | -1.02                | 0.62                |  |
| 5,367.00              | 2.88            | 278.34      | 5,355.71              | 58.55        | -243.76      | -59.99                  | 0.35                  | -0.24                | -4.80               |  |
| 5,461.00              | 2.93            | 280.16      | 5,449.59              | 59.32        | -248.46      | -60.79                  | 0.11                  | 0.05                 | 1.94                |  |
| 5,556.00              | 0.92            | 292.39      | 5,544.53              | 60.03        | -251.56      | -61.53                  | 2.15                  | -2.12                | 12.87               |  |
| 5,650.00              | 0.47            | 288.21      | 5,638.53              | 60.44        | -252.62      | -61.94                  | 0.48                  | -0.48                | -4.45               |  |
| 5,744.00              | 0.55            | 291.17      | 5,732.52              | 60.73        | -253.41      | -62.23                  | 0.09                  | 0.09                 | 3.15                |  |
| 5,839.00              | 0.48            | 291.20      | 5,827.52              | 61.03        | -254.21      | -62.54                  | 0.07                  | -0.07                | 0.03                |  |
| 5,933.00              | 0.43            | 298.78      | 5,921.52              | 61.35        | -254.88      | -62.86                  | 0.08                  | -0.05                | 8.06                |  |
| 6,028.00              | 0.37            | 299.18      | 6,016.51              | 61.67        | -255.46      | -63.18                  | 0.06                  | -0.06                | 0.42                |  |
| 6,122.00              | 0.40            | 308.95      | 6,110.51              | 62.02        | -255.98      | -63.54                  | 0.08                  | 0.03                 | 10.39               |  |
| 6,216.00              | 0.24            | 335.26      | 6,204.51              | 62.41        | -256.32      | -63.93                  | 0.23                  | -0.17                | 27.99               |  |
| 6,311.00              | 0.10            | 316.51      | 6,299.51              | 62.65        | -256.46      | -64.17                  | 0.16                  | -0.15                | -19.74              |  |
| 6,405.00              | 0.04            | 343.10      | 6,393.51              | 62.74        | -256.53      | -64.26                  | 0.07                  | -0.06                | 28.29               |  |
| 6,500.00              | 0.16            | 108.54      | 6,488.51              | 62.73        | -256.41      | -64.25                  | 0.20                  | 0.13                 | 132.04              |  |
| 6,594.00              | 0.31            | 73.48       | 6,582.51              | 62.76        | -256.04      | -64.28                  | 0.21                  | 0.16                 | -37.30              |  |
| 6,689.00              | 0.41            | 79.77       | 6,677.51              | 62.89        | -255.46      | -64.41                  | 0.11                  | 0.11                 | 6.62                |  |
| 6,783.00              | 0.51            | 99.71       | 6,771.50              | 62.88        | -254.72      | -64.39                  | 0.20                  | 0.11                 | 21.21               |  |
| 6,877.00              | 0.84            | 102.63      | 6,865.50              | 62.66        | -253.63      | -64.16                  | 0.35                  | 0.35                 | 3.11                |  |
| 6,971.00              | 0.89            | 105.69      | 6,959.49              | 62.31        | -252.26      | -63.81                  | 0.07                  | 0.05                 | 3.26                |  |
| 7,066.00              | 0.89            | 95.47       | 7,054.47              | 62.04        | -250.81      | -63.53                  | 0.17                  | 0.00                 | -10.76              |  |
| 7,160.00              | 0.76            | 90.78       | 7,148.47              | 61.96        | -249.46      | -63.44                  | 0.16                  | -0.14                | -4.99               |  |
| 7,255.00              | 0.76            | 102.02      | 7,243.46              | 61.82        | -248.22      | -63.30                  | 0.16                  | 0.00                 | 11.83               |  |
| 7,349.00              | 0.52            | 109.32      | 7,337.45              | 61.55        | -247.21      | -63.02                  | 0.27                  | -0.26                | 7.77                |  |
| 7,443.00              | 0.45            | 161.93      | 7,431.45              | 61.06        | -246.69      | -62.52                  | 0.46                  | -0.07                | 55.97               |  |
| 7,537.00              | 0.65            | 159.75      | 7,525.44              | 60.21        | -246.39      | -61.67                  | 0.21                  | 0.21                 | -2.32               |  |
| 7,631.00              | 0.74            | 155.90      | 7,619.44              | 59.16        | -245.96      | -60.61                  | 0.11                  | 0.10                 | -4.10               |  |
| 7,726.00              | 0.76            | 165.50      | 7,714.43              | 57.99        | -245.55      | -59.44                  | 0.13                  | 0.02                 | 10.11               |  |
| 7,820.00              | 0.88            | 167.00      | 7,808.42              | 56.68        | -245.23      | -58.13                  | 0.13                  | 0.13                 | 1.60                |  |
| 7,914.00              | 0.82            | 162.77      | 7,902.41              | 55.33        | -244.87      | -56.79                  | 0.09                  | -0.06                | -4.50               |  |
| 8,008.00              | 0.76            | 168.00      | 7,996.40              | 54.08        | -244.54      | -55.53                  | 0.10                  | -0.06                | 5.56                |  |
| 8,103.00              | 0.73            | 186.27      | 8,091.39              | 52.86        | -244.47      | -54.31                  | 0.25                  | -0.03                | 19.23               |  |
| 8,197.00              | 0.71            | 187.12      | 8,185.38              | 51.69        | -244.61      | -53.14                  | 0.02                  | -0.02                | 0.90                |  |

|           |                       |                              |                                                   |
|-----------|-----------------------|------------------------------|---------------------------------------------------|
| Company:  | ConocoPhillips        | Local Co-ordinate Reference: | Well W1 3H                                        |
| Project:  | Lea County, NM        | TVD Reference:               | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Site:     | War Hammer 25 Fed Com | MD Reference:                | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Well:     | W1 3H                 | North Reference:             | Grid                                              |
| Wellbore: | Original Hole         | Survey Calculation Method:   | Minimum Curvature                                 |
| Design:   | Original Hole         | 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) |
| 8,291.00              | 0.75            | 175.54      | 8,279.38              | 50.50        | -244.64      | -51.95                  | 0.16                  | 0.04                 | -12.32              |
| 8,385.00              | 0.96            | 174.30      | 8,373.37              | 49.10        | -244.51      | -50.55                  | 0.22                  | 0.22                 | -1.32               |
| 8,480.00              | 0.97            | 188.64      | 8,468.35              | 47.51        | -244.55      | -48.97                  | 0.25                  | 0.01                 | 15.09               |
| 8,574.00              | 1.08            | 197.55      | 8,562.34              | 45.88        | -244.94      | -47.34                  | 0.21                  | 0.12                 | 9.48                |
| 8,669.00              | 1.36            | 200.47      | 8,657.32              | 43.97        | -245.60      | -45.43                  | 0.30                  | 0.29                 | 3.07                |
| 8,763.00              | 1.41            | 204.92      | 8,751.29              | 41.88        | -246.48      | -43.34                  | 0.13                  | 0.05                 | 4.73                |
| 8,857.00              | 1.23            | 218.51      | 8,845.26              | 40.04        | -247.60      | -41.51                  | 0.38                  | -0.19                | 14.46               |
| 8,951.00              | 1.06            | 225.51      | 8,939.25              | 38.64        | -248.84      | -40.12                  | 0.23                  | -0.18                | 7.45                |
| 9,046.00              | 1.19            | 212.81      | 9,034.23              | 37.20        | -250.01      | -38.68                  | 0.30                  | 0.14                 | -13.37              |
| 9,140.00              | 1.22            | 207.88      | 9,128.21              | 35.49        | -251.00      | -36.98                  | 0.11                  | 0.03                 | -5.24               |
| 9,234.00              | 1.90            | 195.54      | 9,222.17              | 33.11        | -251.89      | -34.60                  | 0.80                  | 0.72                 | -13.13              |
| 9,329.00              | 1.39            | 214.78      | 9,317.13              | 30.64        | -252.97      | -32.14                  | 0.78                  | -0.54                | 20.25               |
| 9,423.00              | 1.14            | 209.22      | 9,411.11              | 28.89        | -254.07      | -30.40                  | 0.30                  | -0.27                | -5.91               |
| 9,517.00              | 1.05            | 228.16      | 9,505.09              | 27.50        | -255.17      | -29.01                  | 0.39                  | -0.10                | 20.15               |
| 9,612.00              | 1.42            | 218.79      | 9,600.07              | 26.00        | -256.56      | -27.52                  | 0.44                  | 0.39                 | -9.86               |
| 9,706.00              | 1.62            | 214.57      | 9,694.04              | 24.00        | -258.04      | -25.53                  | 0.24                  | 0.21                 | -4.49               |
| 9,827.00              | 1.67            | 233.29      | 9,814.99              | 21.54        | -260.43      | -23.08                  | 0.44                  | 0.04                 | 15.47               |
| 9,922.00              | 1.30            | 244.65      | 9,909.96              | 20.25        | -262.51      | -21.81                  | 0.50                  | -0.39                | 11.96               |
| 10,016.00             | 1.19            | 242.50      | 10,003.93             | 19.34        | -264.34      | -20.91                  | 0.13                  | -0.12                | -2.29               |
| 10,111.00             | 1.33            | 253.84      | 10,098.91             | 18.58        | -266.27      | -20.16                  | 0.30                  | 0.15                 | 11.94               |
| 10,205.00             | 0.65            | 249.38      | 10,192.90             | 18.09        | -267.82      | -19.68                  | 0.73                  | -0.72                | -4.74               |
| 10,299.00             | 0.40            | 232.15      | 10,286.89             | 17.70        | -268.58      | -19.29                  | 0.31                  | -0.27                | -18.33              |
| 10,394.00             | 0.41            | 182.02      | 10,381.89             | 17.16        | -268.85      | -18.75                  | 0.36                  | 0.01                 | -52.77              |
| 10,488.00             | 0.81            | 174.91      | 10,475.89             | 16.16        | -268.80      | -17.75                  | 0.43                  | 0.43                 | -7.56               |
| 10,582.00             | 1.05            | 163.85      | 10,569.87             | 14.67        | -268.51      | -16.26                  | 0.32                  | 0.26                 | -11.77              |
| 10,677.00             | 1.05            | 173.47      | 10,664.86             | 12.97        | -268.17      | -14.56                  | 0.19                  | 0.00                 | 10.13               |
| 10,771.00             | 1.50            | 189.12      | 10,758.83             | 10.90        | -268.26      | -12.49                  | 0.60                  | 0.48                 | 16.65               |
| 10,865.00             | 0.97            | 207.32      | 10,852.81             | 8.98         | -268.82      | -10.57                  | 0.69                  | -0.56                | 19.36               |
| 10,960.00             | 1.16            | 191.78      | 10,947.80             | 7.32         | -269.39      | -8.92                   | 0.36                  | 0.20                 | -16.36              |
| 11,054.00             | 1.79            | 205.48      | 11,041.76             | 5.06         | -270.21      | -6.67                   | 0.76                  | 0.67                 | 14.57               |
| 11,148.00             | 2.03            | 219.61      | 11,135.71             | 2.45         | -271.91      | -4.07                   | 0.56                  | 0.26                 | 15.03               |
| 11,242.00             | 0.95            | 245.11      | 11,229.68             | 0.84         | -273.68      | -2.47                   | 1.32                  | -1.15                | 27.13               |
| 11,337.00             | 1.07            | 275.81      | 11,324.67             | 0.60         | -275.27      | -2.24                   | 0.58                  | 0.13                 | 32.32               |
| 11,431.00             | 0.80            | 252.46      | 11,418.65             | 0.49         | -276.77      | -2.14                   | 0.49                  | -0.29                | -24.84              |
| 11,526.00             | 2.31            | 212.44      | 11,513.62             | -1.32        | -278.43      | -0.33                   | 1.87                  | 1.59                 | -42.13              |
| 11,557.00             | 3.89            | 201.13      | 11,544.57             | -2.83        | -279.14      | 1.17                    | 5.44                  | 5.10                 | -36.48              |
| 11,620.00             | 5.24            | 197.21      | 11,607.37             | -7.57        | -280.77      | 5.91                    | 2.20                  | 2.14                 | -6.22               |
| 11,651.00             | 7.64            | 193.43      | 11,638.17             | -10.93       | -281.66      | 9.26                    | 7.86                  | 7.74                 | -12.19              |
| 11,682.00             | 11.20           | 188.34      | 11,668.75             | -15.91       | -282.58      | 14.24                   | 11.78                 | 11.48                | -16.42              |
| 11,714.00             | 15.04           | 183.14      | 11,699.91             | -23.14       | -283.26      | 21.46                   | 12.54                 | 12.00                | -16.25              |
| 11,745.00             | 17.76           | 176.42      | 11,729.85             | -31.87       | -283.18      | 30.19                   | 10.68                 | 8.77                 | -21.68              |
| 11,777.00             | 20.63           | 173.25      | 11,759.87             | -42.35       | -282.22      | 40.67                   | 9.54                  | 8.97                 | -9.91               |



|           |                       |                              |                                                   |
|-----------|-----------------------|------------------------------|---------------------------------------------------|
| Company:  | ConocoPhillips        | Local Co-ordinate Reference: | Well W1 3H                                        |
| Project:  | Lea County, NM        | TVD Reference:               | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Site:     | War Hammer 25 Fed Com | MD Reference:                | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Well:     | W1 3H                 | North Reference:             | Grid                                              |
| Wellbore: | Original Hole         | Survey Calculation Method:   | Minimum Curvature                                 |
| Design:   | Original Hole         | 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) |
| 11,808.00             | 23.20           | 171.89      | 11,788.63             | -53.82       | -280.71      | 52.15                   | 8.45                  | 8.29                 | -4.39               |
| 11,840.00             | 26.00           | 171.71      | 11,817.72             | -67.00       | -278.81      | 65.34                   | 8.75                  | 8.75                 | -0.56               |
| 11,871.00             | 29.10           | 173.22      | 11,845.20             | -81.21       | -276.94      | 79.57                   | 10.25                 | 10.00                | 4.87                |
| 11,902.00             | 31.73           | 177.21      | 11,871.93             | -96.84       | -275.65      | 95.21                   | 10.69                 | 8.48                 | 12.87               |
| 11,934.00             | 34.41           | 178.72      | 11,898.75             | -114.29      | -275.04      | 112.66                  | 8.76                  | 8.37                 | 4.72                |
| 11,965.00             | 36.72           | 180.38      | 11,923.96             | -132.32      | -274.91      | 130.69                  | 8.08                  | 7.45                 | 5.35                |
| 11,997.00             | 39.13           | 181.18      | 11,949.21             | -151.98      | -275.18      | 150.35                  | 7.69                  | 7.53                 | 2.50                |
| 12,028.00             | 41.58           | 181.79      | 11,972.83             | -172.05      | -275.70      | 170.41                  | 8.01                  | 7.90                 | 1.97                |
| 12,060.00             | 43.63           | 181.06      | 11,996.38             | -193.70      | -276.24      | 192.06                  | 6.59                  | 6.41                 | -2.28               |
| 12,091.00             | 45.14           | 179.62      | 12,018.53             | -215.38      | -276.36      | 213.74                  | 5.85                  | 4.87                 | -4.65               |
| 12,122.00             | 47.45           | 178.21      | 12,039.95             | -237.79      | -275.93      | 236.15                  | 8.14                  | 7.45                 | -4.55               |
| 12,154.00             | 49.82           | 179.12      | 12,061.10             | -261.80      | -275.38      | 260.16                  | 7.71                  | 7.41                 | 2.84                |
| 12,185.00             | 52.34           | 179.16      | 12,080.57             | -285.91      | -275.02      | 284.27                  | 8.13                  | 8.13                 | 0.13                |
| 12,217.00             | 53.10           | 180.26      | 12,099.95             | -311.37      | -274.89      | 309.73                  | 3.62                  | 2.37                 | 3.44                |
| 12,248.00             | 54.90           | 180.90      | 12,118.18             | -336.45      | -275.14      | 334.81                  | 6.04                  | 5.81                 | 2.06                |
| 12,279.00             | 56.92           | 181.93      | 12,135.55             | -362.11      | -275.78      | 360.47                  | 7.07                  | 6.52                 | 3.32                |
| 12,311.00             | 60.30           | 181.80      | 12,152.22             | -389.41      | -276.67      | 387.76                  | 10.57                 | 10.56                | -0.41               |
| 12,342.00             | 63.81           | 181.36      | 12,166.74             | -416.78      | -277.42      | 415.13                  | 11.39                 | 11.32                | -1.42               |
| 12,417.00             | 67.43           | 181.62      | 12,197.69             | -485.06      | -279.20      | 483.39                  | 4.84                  | 4.83                 | 0.35                |
| 12,507.00             | 67.62           | 181.57      | 12,232.10             | -568.19      | -281.51      | 566.51                  | 0.22                  | 0.21                 | -0.06               |
| 12,544.00             | 70.74           | 180.80      | 12,245.25             | -602.76      | -282.23      | 601.08                  | 8.65                  | 8.43                 | -2.08               |
| 12,575.00             | 74.86           | 179.57      | 12,254.41             | -632.37      | -282.32      | 630.68                  | 13.82                 | 13.29                | -3.97               |
| 12,606.00             | 77.91           | 178.50      | 12,261.71             | -662.49      | -281.81      | 660.80                  | 10.39                 | 9.84                 | -3.45               |
| 12,638.00             | 81.92           | 177.29      | 12,267.31             | -693.96      | -280.65      | 692.29                  | 13.07                 | 12.53                | -3.78               |
| 12,700.00             | 89.68           | 174.36      | 12,271.85             | -755.58      | -276.15      | 753.93                  | 13.37                 | 12.52                | -4.73               |
| 12,796.00             | 92.98           | 177.23      | 12,269.62             | -851.27      | -269.11      | 849.66                  | 4.55                  | 3.44                 | 2.99                |
| 12,891.00             | 87.61           | 179.21      | 12,269.13             | -946.19      | -266.16      | 944.59                  | 6.02                  | -5.65                | 2.08                |
| 12,986.00             | 87.83           | 179.88      | 12,272.91             | -1,041.11    | -265.41      | 1,039.51                | 0.74                  | 0.23                 | 0.71                |
| 13,080.00             | 88.67           | 180.48      | 12,275.78             | -1,135.06    | -265.70      | 1,133.46                | 1.10                  | 0.89                 | 0.64                |
| 13,175.00             | 89.01           | 180.51      | 12,277.71             | -1,230.04    | -266.52      | 1,228.43                | 0.36                  | 0.36                 | 0.03                |
| 13,270.00             | 91.83           | 180.47      | 12,277.01             | -1,325.02    | -267.33      | 1,323.41                | 2.97                  | 2.97                 | -0.04               |
| 13,365.00             | 92.45           | 180.33      | 12,273.46             | -1,419.95    | -268.00      | 1,418.34                | 0.67                  | 0.65                 | -0.15               |
| 13,460.00             | 91.81           | 179.57      | 12,269.93             | -1,514.89    | -267.91      | 1,513.27                | 1.05                  | -0.67                | -0.80               |
| 13,554.00             | 91.11           | 179.38      | 12,267.54             | -1,608.85    | -267.05      | 1,607.24                | 0.77                  | -0.74                | -0.20               |
| 13,649.00             | 91.58           | 179.28      | 12,265.31             | -1,703.82    | -265.94      | 1,702.21                | 0.51                  | 0.49                 | -0.11               |
| 13,744.00             | 91.95           | 178.98      | 12,262.38             | -1,798.76    | -264.50      | 1,797.16                | 0.50                  | 0.39                 | -0.32               |
| 13,839.00             | 89.87           | 174.94      | 12,260.87             | -1,893.59    | -259.46      | 1,892.02                | 4.78                  | -2.19                | -4.25               |
| 13,934.00             | 91.98           | 173.60      | 12,259.34             | -1,988.10    | -249.98      | 1,986.58                | 2.63                  | 2.22                 | -1.41               |
| 14,029.00             | 90.21           | 175.86      | 12,257.52             | -2,082.67    | -241.26      | 2,081.20                | 3.02                  | -1.86                | 2.38                |
| 14,123.00             | 89.48           | 175.20      | 12,257.78             | -2,176.38    | -233.93      | 2,174.95                | 1.05                  | -0.78                | -0.70               |
| 14,218.00             | 90.46           | 174.24      | 12,257.83             | -2,270.98    | -225.19      | 2,269.60                | 1.44                  | 1.03                 | -1.01               |
| 14,313.00             | 90.18           | 178.77      | 12,257.30             | -2,365.77    | -219.40      | 2,364.43                | 4.78                  | -0.29                | 4.77                |



|           |                       |                              |                                                   |
|-----------|-----------------------|------------------------------|---------------------------------------------------|
| Company:  | ConocoPhillips        | Local Co-ordinate Reference: | Well W1 3H                                        |
| Project:  | Lea County, NM        | TVD Reference:               | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Site:     | War Hammer 25 Fed Com | MD Reference:                | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Well:     | W1 3H                 | North Reference:             | Grid                                              |
| Wellbore: | Original Hole         | Survey Calculation Method:   | Minimum Curvature                                 |
| Design:   | Original Hole         | 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) |
| 14,408.00             | 90.10           | 186.76      | 12,257.06             | -2,460.58    | -223.98      | 2,459.21                | 8.41                  | -0.08                | 8.41                |
| 14,503.00             | 90.68           | 183.30      | 12,256.42             | -2,555.20    | -232.31      | 2,553.78                | 3.69                  | 0.61                 | -3.64               |
| 14,598.00             | 89.62           | 182.16      | 12,256.17             | -2,650.09    | -236.83      | 2,648.64                | 1.64                  | -1.12                | -1.20               |
| 14,693.00             | 90.29           | 180.42      | 12,256.24             | -2,745.06    | -238.97      | 2,743.60                | 1.96                  | 0.71                 | -1.83               |
| 14,787.00             | 91.78           | 185.27      | 12,254.54             | -2,838.90    | -243.63      | 2,837.41                | 5.40                  | 1.59                 | 5.16                |
| 14,882.00             | 91.41           | 189.02      | 12,251.90             | -2,933.11    | -255.44      | 2,931.54                | 3.96                  | -0.39                | 3.95                |
| 14,977.00             | 90.49           | 188.07      | 12,250.32             | -3,027.04    | -269.56      | 3,025.39                | 1.39                  | -0.97                | -1.00               |
| 15,072.00             | 90.38           | 183.91      | 12,249.60             | -3,121.50    | -279.47      | 3,119.78                | 4.38                  | -0.12                | -4.38               |
| 15,167.00             | 90.38           | 181.42      | 12,248.97             | -3,216.39    | -283.88      | 3,214.64                | 2.62                  | 0.00                 | -2.62               |
| 15,262.00             | 90.32           | 177.43      | 12,248.39             | -3,311.36    | -282.93      | 3,309.62                | 4.20                  | -0.06                | -4.20               |
| 15,357.00             | 90.74           | 177.41      | 12,247.51             | -3,406.26    | -278.65      | 3,404.55                | 0.44                  | 0.44                 | -0.02               |
| 15,451.00             | 90.55           | 176.82      | 12,246.45             | -3,500.13    | -273.92      | 3,498.45                | 0.66                  | -0.20                | -0.63               |
| 15,546.00             | 90.38           | 176.36      | 12,245.68             | -3,594.96    | -268.27      | 3,593.31                | 0.52                  | -0.18                | -0.48               |
| 15,641.00             | 88.64           | 177.17      | 12,246.50             | -3,689.80    | -262.91      | 3,688.18                | 2.02                  | -1.83                | 0.85                |
| 15,736.00             | 89.68           | 177.23      | 12,247.89             | -3,784.68    | -258.27      | 3,783.08                | 1.10                  | 1.09                 | 0.06                |
| 15,831.00             | 88.75           | 176.04      | 12,249.19             | -3,879.50    | -252.70      | 3,877.93                | 1.59                  | -0.98                | -1.25               |
| 15,926.00             | 89.34           | 179.57      | 12,250.77             | -3,974.40    | -249.06      | 3,972.86                | 3.77                  | 0.62                 | 3.72                |
| 16,021.00             | 89.03           | 174.98      | 12,252.13             | -4,069.26    | -244.55      | 4,067.74                | 4.84                  | -0.33                | -4.83               |
| 16,115.00             | 89.96           | 174.97      | 12,252.95             | -4,162.90    | -236.31      | 4,161.42                | 0.99                  | 0.99                 | -0.01               |
| 16,210.00             | 90.01           | 183.99      | 12,252.98             | -4,257.79    | -235.45      | 4,256.32                | 9.49                  | 0.05                 | 9.49                |
| 16,305.00             | 90.35           | 184.61      | 12,252.68             | -4,352.53    | -242.57      | 4,351.01                | 0.74                  | 0.36                 | 0.65                |
| 16,400.00             | 90.49           | 180.85      | 12,251.98             | -4,447.40    | -247.10      | 4,445.85                | 3.96                  | 0.15                 | -3.96               |
| 16,495.00             | 90.52           | 179.73      | 12,251.15             | -4,542.39    | -247.58      | 4,540.84                | 1.18                  | 0.03                 | -1.18               |
| 16,584.00             | 90.04           | 179.02      | 12,250.71             | -4,631.38    | -246.61      | 4,629.84                | 0.96                  | -0.54                | -0.80               |
| 16,679.00             | 90.57           | 176.57      | 12,250.21             | -4,726.31    | -242.95      | 4,724.78                | 2.64                  | 0.56                 | -2.58               |
| 16,774.00             | 88.73           | 173.21      | 12,250.79             | -4,820.91    | -234.49      | 4,819.43                | 4.03                  | -1.94                | -3.54               |
| 16,869.00             | 90.10           | 180.70      | 12,251.76             | -4,915.70    | -229.45      | 4,914.25                | 8.01                  | 1.44                 | 7.88                |
| 16,964.00             | 90.77           | 178.46      | 12,251.04             | -5,010.69    | -228.76      | 5,009.24                | 2.46                  | 0.71                 | -2.36               |
| 17,058.00             | 89.37           | 177.99      | 12,250.92             | -5,104.64    | -225.84      | 5,103.21                | 1.57                  | -1.49                | -0.50               |
| 17,153.00             | 90.71           | 183.79      | 12,250.86             | -5,199.59    | -227.32      | 5,198.14                | 6.27                  | 1.41                 | 6.11                |
| 17,248.00             | 90.55           | 180.88      | 12,249.81             | -5,294.49    | -231.19      | 5,293.03                | 3.07                  | -0.17                | -3.06               |
| 17,343.00             | 90.15           | 180.54      | 12,249.23             | -5,389.48    | -232.37      | 5,388.01                | 0.55                  | -0.42                | -0.36               |
| 17,438.00             | 90.66           | 180.56      | 12,248.56             | -5,484.47    | -233.28      | 5,482.99                | 0.54                  | 0.54                 | 0.02                |
| 17,533.00             | 90.71           | 180.63      | 12,247.42             | -5,579.46    | -234.26      | 5,577.97                | 0.09                  | 0.05                 | 0.07                |
| 17,627.00             | 86.40           | 179.42      | 12,249.79             | -5,673.41    | -234.31      | 5,671.92                | 4.76                  | -4.59                | -1.29               |
| 17,722.00             | 87.29           | 180.81      | 12,255.02             | -5,768.26    | -234.50      | 5,766.77                | 1.74                  | 0.94                 | 1.46                |
| 17,817.00             | 90.13           | 181.48      | 12,257.16             | -5,863.21    | -236.39      | 5,861.70                | 3.07                  | 2.99                 | 0.71                |
| 17,911.00             | 91.60           | 182.33      | 12,255.74             | -5,957.14    | -239.52      | 5,955.62                | 1.81                  | 1.56                 | 0.90                |
| 18,007.00             | 90.52           | 179.24      | 12,253.97             | -6,053.10    | -240.83      | 6,051.57                | 3.41                  | -1.12                | -3.22               |
| 18,102.00             | 89.15           | 178.36      | 12,254.24             | -6,148.08    | -238.84      | 6,146.55                | 1.71                  | -1.44                | -0.93               |
| 18,196.00             | 89.01           | 178.26      | 12,255.75             | -6,242.03    | -236.07      | 6,240.51                | 0.18                  | -0.15                | -0.11               |
| 18,291.00             | 88.39           | 178.59      | 12,257.90             | -6,336.96    | -233.46      | 6,335.47                | 0.74                  | -0.65                | 0.35                |



|           |                       |                              |                                                   |
|-----------|-----------------------|------------------------------|---------------------------------------------------|
| Company:  | ConocoPhillips        | Local Co-ordinate Reference: | Well W1 3H                                        |
| Project:  | Lea County, NM        | TVD Reference:               | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Site:     | War Hammer 25 Fed Com | MD Reference:                | Well @ 3166.00usft (H&P 499 RKB: 27' + GL: 3139') |
| Well:     | W1 3H                 | North Reference:             | Grid                                              |
| Wellbore: | Original Hole         | Survey Calculation Method:   | Minimum Curvature                                 |
| Design:   | Original Hole         | 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) |  |
| 18,386.00             | 92.76           | 179.67      | 12,256.95             | -6,431.92    | -232.02      | 6,430.43                | 4.74                  | 4.60                 | 1.14                |  |
| 18,481.00             | 92.51           | 179.93      | 12,252.58             | -6,526.82    | -231.69      | 6,525.33                | 0.38                  | -0.26                | 0.27                |  |
| 18,576.00             | 91.53           | 180.71      | 12,249.23             | -6,621.76    | -232.22      | 6,620.27                | 1.32                  | -1.03                | 0.82                |  |
| 18,670.00             | 89.68           | 181.10      | 12,248.24             | -6,715.74    | -233.70      | 6,714.23                | 2.01                  | -1.97                | 0.41                |  |
| 18,766.00             | 89.73           | 181.03      | 12,248.74             | -6,811.72    | -235.49      | 6,810.20                | 0.09                  | 0.05                 | -0.07               |  |
| 18,849.00             | 89.37           | 181.38      | 12,249.39             | -6,894.70    | -237.23      | 6,893.17                | 0.60                  | -0.43                | 0.42                |  |
| 18,902.00             | 89.37           | 181.38      | 12,249.97             | -6,947.68    | -238.51      | 6,946.14                | 0.00                  | 0.00                 | 0.00                |  |

| Casing Points         |                       |          |                      |                    |  |
|-----------------------|-----------------------|----------|----------------------|--------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name     | Casing Diameter (in) | Hole Diameter (in) |  |
| 0.00                  | 0.00                  | 12335.00 | 5.00                 | 5.50               |  |
| 1.00                  | 1.00                  | 770.00   | 133.00               | 133.00             |  |
| 1.00                  | 1.00                  | 4764.00  | 95.00                | 95.00              |  |
| 1.00                  | 1.00                  | 12065.00 | 75.00                | 75.00              |  |

| Survey Annotations    |                       |                   |              |                                              |  |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                                      |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                              |  |
| 14,086.00             | 12,257.53             | -2,139.50         | -236.94      | Proj to bit @ 14181' MD/90.46 Inc/174.24 Azi |  |

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