

## Results of Directional Survey

|             |                     |           |                               |
|-------------|---------------------|-----------|-------------------------------|
| API number: | <b>30-025-40329</b> |           |                               |
| OGRID:      |                     | Operator: | <b>CONOCOPHILLIPS COMPANY</b> |
|             |                     | Property: | <b>WILDER 28 FEDERAL</b> # 2H |

|         |        |          |           |            |            |             |            |
|---------|--------|----------|-----------|------------|------------|-------------|------------|
| surface | ULSTR: | <b>B</b> | <b>28</b> | <b>T</b>   | <b>26S</b> | <b>R</b>    | <b>32E</b> |
|         |        |          |           | <b>330</b> | <b>FNL</b> | <b>2160</b> | <b>FEL</b> |

|              |           |               |            |             |            |             |            |
|--------------|-----------|---------------|------------|-------------|------------|-------------|------------|
| BH Loc       | ULSTR:    | <b>O</b>      | <b>28</b>  | <b>T</b>    | <b>26S</b> | <b>R</b>    | <b>32E</b> |
| <b>13584</b> | <b>MD</b> | <b>9289.2</b> | <b>TVD</b> | <b>347</b>  | <b>FSL</b> | <b>2145</b> | <b>FEL</b> |
|              |           |               |            | <b>4933</b> | <b>FNL</b> |             |            |

|             |           |               |            |             |            |             |            |
|-------------|-----------|---------------|------------|-------------|------------|-------------|------------|
| Top Perf/OH | ULSTR:    | <b>B</b>      | <b>28</b>  | <b>T</b>    | <b>26S</b> | <b>R</b>    | <b>32E</b> |
| <b>9740</b> | <b>MD</b> | <b>9293.8</b> | <b>TVD</b> | <b>1093</b> | <b>FNL</b> | <b>2199</b> | <b>FEL</b> |

|              |           |               |            |             |            |             |            |
|--------------|-----------|---------------|------------|-------------|------------|-------------|------------|
| Bot Perf/OH  | ULSTR:    | <b>O</b>      | <b>28</b>  | <b>T</b>    | <b>26S</b> | <b>R</b>    | <b>32E</b> |
| <b>13479</b> | <b>MD</b> | <b>9290.6</b> | <b>TVD</b> | <b>452</b>  | <b>FSL</b> | <b>2143</b> | <b>FEL</b> |
|              |           |               |            | <b>4828</b> | <b>FNL</b> |             |            |

|              |              |          |        |         |
|--------------|--------------|----------|--------|---------|
|              | MD           | N/S      | E/W    | VD      |
|              | 9709         | -731.60  | -40.10 | 9292.1  |
| TOP PERFS/OH | <b>9740</b>  | -762.60  | -38.70 | 9293.80 |
|              | 9740         | -762.60  | -38.70 | 9293.80 |
|              | 13413        | -4432.30 | 17.60  | 9291.20 |
| BOT PERFS/OH | <b>13479</b> | -4498.30 | 16.69  | 9290.57 |
|              | 13507        | -4526.30 | 16.30  | 9290.30 |

|              |              |          |       |         |
|--------------|--------------|----------|-------|---------|
| NEXT TO LAST | 13531        | -4550.30 | 16.00 | 9289.90 |
| LAST READING | 13584        | -4603.30 | 14.70 | 9289.20 |
| TD           | <b>13584</b> | -4603.30 | 14.70 | 9289.20 |

|                  |      |    |      |    |
|------------------|------|----|------|----|
| Surface Location | 330  | FN | 2160 | FE |
| Projected BHL    | 4933 | FN | 2145 | FE |
| Location of      |      |    |      |    |
| Top Perfs/OH     | 1093 | FN | 2199 | FE |
| Bottom Perfs/OH  | 4828 | FN | 2143 | FE |

### SUMMARY of Subsurface Locations

|                  |              |      |    |      |    |             |
|------------------|--------------|------|----|------|----|-------------|
| Surface Location | B-28-26S-32E | 330  | FN | 2160 | FE | Vert. Depth |
|                  |              |      |    |      |    |             |
| Top Perfs/OH     | B-28-26S-32E | 1093 | FN | 2199 | FE | 9293.80     |
| Bottom Perfs/OH  | O-28-26S-32E | 4828 | FN | 2143 | FE | 9290.57     |
|                  |              |      |    |      |    |             |
| Projected TD     | O-28-26S-32E | 4933 | FN | 2145 | FE | 9289.20     |

**A. Gyrodata Directional Survey**

for

**CONOCO PHILLIPS**

Lease: WILDER FEDERAL 28 Well #2H, 5" DRILLPIPE  
Location: NABORS DRILLING RIG #M09, LEA COUNTY, NEW MEXICO

Job Number: MD0112GMS104

Run Date: 01 Jan 2012

Surveyor: Michael Robles

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from Well plan/Plot  
Survey Latitude: 32.019831 deg N Longitude: 103.677864 deg W

Azimuth Correction:

Gyro: -0.35000 deg to Grid North

Depth Reference: Rotary Table

Rotary Table Elevation: 22.00

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

SUR: B-28-26s-32e, 330/N & 2160/E  
BHL: O=28-26s-32e, 4933/N & 2145/E  
API # 30-025-40329

# A Gyrodata Directional Survey

CONOCO PHILLIPS

Lease: WILDER FEDERAL 28 Well: #2H, 5" DRILLPIPE

Location: NABORS DRILLING RIG #M09, LEA COUNTY, NEW MEXICO

Job Number: MD0112GMS104

| MEASURED<br>DEPTH<br>feet | INCL<br>deg. | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST, AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|---------------------------|--------------|-----------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 0.00                      | 0.00         | 0.00            | 0.00                                   | 0.00                      | 0.0 0.0                               | 0.00 N 0.00 E                     |

0 TO 4175 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 5" DRILLPIPE  
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO NABORS DRILLING RIG #M09 AND R.K.B. HEIGHT OF 22FT

|         |      |       |      |         |           |                 |
|---------|------|-------|------|---------|-----------|-----------------|
| 100.00  | 0.18 | 63.90 | 0.18 | 100.00  | 0.2 63.9  | 0.07 N 0.14 E   |
| 200.00  | 0.19 | 62.87 | 0.01 | 200.00  | 0.5 63.5  | 0.21 N 0.43 E   |
| 300.00  | 1.12 | 53.99 | 0.93 | 299.99  | 1.6 57.7  | 0.86 N 1.37 E   |
| 400.00  | 1.89 | 60.47 | 0.79 | 399.96  | 4.2 57.9  | 2.25 N 3.59 E   |
| 500.00  | 2.19 | 56.62 | 0.33 | 499.89  | 7.8 58.1  | 4.12 N 6.62 E   |
| 600.00  | 2.33 | 50.27 | 0.29 | 599.82  | 11.7 56.5 | 6.47 N 9.78 E   |
| 700.00  | 2.30 | 47.57 | 0.11 | 699.73  | 15.7 54.6 | 9.12 N 12.83 E  |
| 800.00  | 2.22 | 59.09 | 0.46 | 799.66  | 19.7 54.3 | 11.47 N 15.97 E |
| 900.00  | 2.70 | 69.49 | 0.65 | 899.56  | 23.9 56.2 | 13.29 N 19.84 E |
| 1000.00 | 3.39 | 74.74 | 0.74 | 999.42  | 29.0 59.1 | 14.89 N 24.90 E |
| 1100.00 | 3.43 | 76.87 | 0.13 | 1099.25 | 34.7 61.9 | 16.35 N 30.66 E |
| 1200.00 | 3.19 | 78.87 | 0.27 | 1199.08 | 40.3 64.2 | 17.57 N 36.30 E |
| 1300.00 | 2.70 | 84.19 | 0.56 | 1298.95 | 45.3 66.1 | 18.34 N 41.38 E |
| 1400.00 | 2.50 | 85.60 | 0.21 | 1398.84 | 49.6 67.8 | 18.75 N 45.90 E |
| 1500.00 | 2.38 | 88.53 | 0.17 | 1498.75 | 53.6 69.3 | 18.97 N 50.15 E |
| 1600.00 | 2.42 | 89.76 | 0.07 | 1598.67 | 57.6 70.7 | 19.03 N 54.33 E |
| 1700.00 | 2.22 | 86.65 | 0.24 | 1698.58 | 61.4 71.8 | 19.15 N 58.38 E |

# A Gyrodata Directional Survey

CONOCO PHILLIPS

Lease: WILDER FEDERAL 28 Well: #2H, 5" DRILLPIPE

Location: NABORS DRILLING RIG #M09, LEA COUNTY, NEW MEXICO

Job Number: MD0112GMS104

| MEASURED<br>DEPTH<br>feet | INCL<br>deg. | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|---------------------------|--------------|-----------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 1800.00                   | 1.75         | 93.19           | 0.52                                   | 1798.52                   | 64.7 72.8                             | 19.18 N<br>61.84 E                |
| 1900.00                   | 1.08         | 112.59          | 0.81                                   | 1898.49                   | 66.9 73.7                             | 18.73 N<br>64.23 E                |
| 2000.00                   | 0.57         | 155.08          | 0.76                                   | 1998.48                   | 67.7 74.7                             | 17.92 N<br>65.31 E                |
| 2100.00                   | 0.41         | 175.49          | 0.23                                   | 2098.48                   | 67.7 75.4                             | 17.11 N<br>65.55 E                |
| 2200.00                   | 0.41         | 196.47          | 0.15                                   | 2198.48                   | 67.5 75.9                             | 16.41 N<br>65.47 E                |
| 2300.00                   | 0.52         | 196.57          | 0.11                                   | 2298.47                   | 67.1 76.5                             | 15.63 N<br>65.24 E                |
| 2400.00                   | 0.81         | 223.93          | 0.42                                   | 2398.47                   | 66.3 77.2                             | 14.69 N<br>64.62 E                |
| 2500.00                   | 1.08         | 235.56          | 0.33                                   | 2498.45                   | 64.8 77.8                             | 13.65 N<br>63.36 E                |
| 2600.00                   | 1.39         | 250.46          | 0.44                                   | 2598.43                   | 62.7 78.3                             | 12.71 N<br>61.44 E                |
| 2700.00                   | 1.16         | 258.84          | 0.10                                   | 2698.41                   | 60.5 78.5                             | 12.11 N<br>59.30 E                |
| 2800.00                   | 1.26         | 237.07          | 0.47                                   | 2798.38                   | 58.5 78.8                             | 11.31 N<br>57.38 E                |
| 2900.00                   | 0.70         | 251.76          | 0.61                                   | 2898.37                   | 56.9 79.3                             | 10.53 N<br>55.88 E                |
| 3000.00                   | 0.89         | 85.23           | 1.58                                   | 2998.37                   | 57.0 79.5                             | 10.40 N<br>56.07 E                |
| 3100.00                   | 2.05         | 91.48           | 1.17                                   | 3098.33                   | 59.6 79.9                             | 10.42 N<br>58.64 E                |
| 3200.00                   | 2.91         | 82.06           | 0.95                                   | 3198.24                   | 63.8 80.3                             | 10.72 N<br>62.94 E                |
| 3300.00                   | 2.73         | 75.18           | 0.38                                   | 3298.12                   | 68.8 80.2                             | 11.68 N<br>67.76 E                |
| 3400.00                   | 3.02         | 68.20           | 0.45                                   | 3397.99                   | 73.7 79.6                             | 13.27 N<br>72.50 E                |
| 3500.00                   | 2.54         | 65.68           | 0.50                                   | 3497.87                   | 78.4 78.9                             | 15.16 N<br>76.97 E                |
| 3600.00                   | 2.13         | 63.21           | 0.42                                   | 3597.79                   | 82.4 78.2                             | 16.91 N<br>80.65 E                |
| 3700.00                   | 2.33         | 61.53           | 0.21                                   | 3697.71                   | 86.1 77.5                             | 18.72 N<br>84.09 E                |
| 3800.00                   | 2.86         | 85.49           | 1.20                                   | 3797.61                   | 90.6 77.3                             | 19.88 N<br>88.37 E                |
| 3900.00                   | 2.48         | 88.15           | 0.40                                   | 3897.50                   | 95.2 77.8                             | 20.15 N<br>93.02 E                |

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CONOCO PHILLIPS

Lease: WILDER FEDERAL 28 Well: #2H, 5" DRILLPIPE

Location: NABORS DRILLING RIG #M09, LEA COUNTY, NEW MEXICO

Job Number: MD0112GMS104

| MEASURED<br>DEPTH<br>feet | INCL<br>deg. | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|---------------------------|--------------|-----------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 4000.00                   | 2.61         | 102.41          | 0.64                                   | 3997.41                   | 99.4 78.6                             | 19.73 N 97.40 E                   |
| 4100.00                   | 3.27         | 114.79          | 0.91                                   | 4097.28                   | 103.8 80.0                            | 18.04 N 102.22 E                  |
| 4175.00                   | 3.62         | 115.23          | 0.47                                   | 4172.14                   | 107.5 81.4                            | 16.14 N 106.30 E                  |

Final Station Closure: Distance: 107.52 ft Az: 81.37 deg.

gyrodata

Drilling @ cc1.com  
Permian



## **Conoco Phillips**

Lea County, New Mexico

Sec 28, T26S, R32E

Wilder Federal 28 #2H

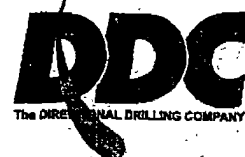
Wellbore #1

Survey: MWD

## **DDC Survey Report**

19 January, 2012

SUR: B-28-26s-32e, 330/N & 2160/E  
BHL: O=28-26s-32e, 4933/N & 2145/E  
API # 30-025-40329



|                  |                        |                                     |                                        |
|------------------|------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Conoco Phillips        | <b>Local Co-ordinate Reference:</b> | Well Wilder Federal 28 #2H             |
| <b>Project:</b>  | Lea County, New Mexico | <b>TVD Reference:</b>               | WELL @ 3178.0usft (Original Well Elev) |
| <b>Site:</b>     | Sec 28, T26S, R32E     | <b>MD Reference:</b>                | WELL @ 3178.0usft (Original Well Elev) |
| <b>Well:</b>     | Wilder Federal 28 #2H  | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Wellbore #1            | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Lea County, New Mexico               |               |                |
| 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                  |          | Sec 28, T26S, R32E |                 |                   |                   |
| Site Position:        |          | Northing:          | 371,284.70 usft | Latitude:         | 32° 1' 8.615 N    |
| From:                 | Map      | Easting:           | 704,476.40 usft | Longitude:        | 103° 40' 24.926 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:       | 13-3/16 "       | Grid Convergence: | 0.35 °            |

|                      |                       |          |                     |                 |               |                   |
|----------------------|-----------------------|----------|---------------------|-----------------|---------------|-------------------|
| Well:                | Wilder Federal 28 #2H |          |                     |                 |               |                   |
| Well Position        | +N/-S                 | 0.0 usft | Northing:           | 371,557.00 usft | Latitude:     | 32° 1' 11.390 N   |
|                      | +E/-W                 | 0.0 usft | Easting:            | 703,150.40 usft | Longitude:    | 103° 40' 40.308 W |
| Position Uncertainty |                       | 0.0 usft | Wellhead Elevation: | usft            | Ground Level: | 3,156.0 usft      |

|           |             |             |                    |                  |                        |
|-----------|-------------|-------------|--------------------|------------------|------------------------|
| Wellbore  | Wellbore #1 |             |                    |                  |                        |
| Magnetics | Model Name  | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|           | IGRF2010    | 12/8/2011   | 7.56               | 59.97            | 48,435                 |

|                   |                  |        |        |               |     |
|-------------------|------------------|--------|--------|---------------|-----|
| Design:           | Wellbore #1      |        |        |               |     |
| Audit Notes:      |                  |        |        |               |     |
| Version:          | 1.0              | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) | +N-S   | +E-W   | Direction     |     |
|                   | (usft)           | (usft) | (usft) | (°)           |     |
|                   | 0.0              | 0.0    | 0.0    | 179.71        |     |

| Survey Program |              | Date 1/19/2012    |             |                |
|----------------|--------------|-------------------|-------------|----------------|
| From<br>(usft) | To<br>(usft) | Survey (Wellbore) | Tool Name   | Description    |
| 4,175.0        | 13,584.0     | MWD (Wellbore #1) | MWD default | MWD - Standard |

|                                      |                    |                |                       |              |              |                         |                    |                   |                  |  |
|--------------------------------------|--------------------|----------------|-----------------------|--------------|--------------|-------------------------|--------------------|-------------------|------------------|--|
| <b>Survey</b>                        |                    |                |                       |              |              |                         |                    |                   |                  |  |
| <b>Measured Depth</b>                | <b>Inclination</b> | <b>Azimuth</b> | <b>Vertical Depth</b> | <b>+N/-S</b> | <b>+E/-W</b> | <b>Vertical Section</b> | <b>Dogleg Rate</b> | <b>Build Rate</b> | <b>Turn Rate</b> |  |
| (usft)                               | (°)                | (°)            | (usft)                | (usft)       | (usft)       | (usft)                  | (°/100usft)        | (°/100usft)       | (°/100usft)      |  |
| <b>Tie In @ 4175' MD / 4172' TVD</b> |                    |                |                       |              |              |                         |                    |                   |                  |  |
| 4,175.0                              | 3.62               | 115.23         | 4,172.1               | 16.1         | 106.3        | -15.6                   | 0.00               | 0.00              | 0.00             |  |
| 4,372.0                              | 2.20               | 113.40         | 4,368.9               | 12.0         | 115.4        | -11.4                   | 0.72               | -0.72             | -0.93            |  |
| 4,467.0                              | 1.90               | 119.20         | 4,463.8               | 10.5         | 118.4        | -9.9                    | 0.38               | -0.32             | 6.11             |  |
| 4,562.0                              | 0.10               | 86.00          | 4,558.8               | 9.7          | 119.9        | -9.1                    | 1.91               | -1.89             | -34.95           |  |
| 4,656.0                              | 0.80               | 347.40         | 4,652.8               | 10.4         | 119.8        | -9.8                    | 0.87               | 0.74              | -104.89          |  |
| 4,749.0                              | 0.80               | 331.90         | 4,745.8               | 11.6         | 119.4        | -11.0                   | 0.23               | 0.00              | -16.67           |  |
| 4,843.0                              | 1.00               | 338.40         | 4,839.8               | 12.9         | 118.8        | -12.3                   | 0.24               | 0.21              | 6.91             |  |
| 4,937.0                              | 1.00               | 337.50         | 4,933.8               | 14.4         | 118.2        | -13.8                   | 0.02               | 0.00              | -0.96            |  |
| 5,031.0                              | 1.50               | 307.30         | 5,027.7               | 15.9         | 116.9        | -15.4                   | 0.86               | 0.53              | -32.13           |  |
| 5,126.0                              | 1.50               | 317.30         | 5,122.7               | 17.6         | 115.0        | -17.0                   | 0.28               | 0.00              | 10.53            |  |

|                  |                        |                                     |                                        |
|------------------|------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Conoco Phillips        | <b>Local Co-ordinate Reference:</b> | Well Wilder Federal 28 #2H             |
| <b>Project:</b>  | Lea County, New Mexico | <b>TVD Reference:</b>               | WELL @ 3178.0usft (Original Well Elev) |
| <b>Site:</b>     | Sec 28, T26S, R32E     | <b>MD Reference:</b>                | WELL @ 3178.0usft (Original Well Elev) |
| <b>Well:</b>     | Wilder Federal 28 #2H  | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Wellbore #1            | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

| Survey                                 |                    |                |                             |                 |                 |                               |                               |                              |                             |
|----------------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| Measured<br>Depth<br>(usft)            | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
| 5,220.0                                | 1.90               | 311.10         | 5,216.7                     | 19.5            | 113.0           | -19.0                         | 0.47                          | 0.43                         | -6.60                       |
| 5,314.0                                | 1.70               | 271.20         | 5,310.6                     | 20.6            | 110.5           | -20.0                         | 1.32                          | -0.21                        | -42.45                      |
| 5,408.0                                | 2.30               | 247.70         | 5,404.6                     | 19.9            | 107.3           | -19.4                         | 1.07                          | 0.64                         | -25.00                      |
| 5,503.0                                | 1.20               | 294.60         | 5,499.5                     | 19.6            | 104.7           | -19.1                         | 1.81                          | -1.16                        | 49.37                       |
| 5,597.0                                | 1.30               | 301.10         | 5,593.5                     | 20.6            | 102.8           | -20.0                         | 0.18                          | 0.11                         | 6.91                        |
| 5,691.0                                | 1.40               | 313.10         | 5,687.5                     | 21.9            | 101.1           | -21.4                         | 0.32                          | 0.11                         | 12.77                       |
| 5,784.0                                | 1.70               | 252.90         | 5,780.5                     | 22.3            | 98.9            | -21.8                         | 1.69                          | 0.32                         | -64.73                      |
| 5,879.0                                | 2.10               | 240.50         | 5,875.4                     | 21.0            | 96.1            | -20.5                         | 0.60                          | 0.42                         | -13.05                      |
| 5,974.0                                | 2.10               | 242.20         | 5,970.3                     | 19.3            | 93.0            | -18.9                         | 0.07                          | 0.00                         | 1.79                        |
| 6,068.0                                | 2.10               | 241.90         | 6,064.3                     | 17.7            | 90.0            | -17.3                         | 0.01                          | 0.00                         | -0.32                       |
| 6,162.0                                | 1.90               | 241.50         | 6,158.2                     | 16.2            | 87.1            | -15.7                         | 0.21                          | -0.21                        | -0.43                       |
| 6,257.0                                | 1.90               | 240.60         | 6,253.2                     | 14.6            | 84.3            | -14.2                         | 0.03                          | 0.00                         | -0.95                       |
| 6,352.0                                | 2.10               | 245.40         | 6,348.1                     | 13.1            | 81.4            | -12.7                         | 0.27                          | 0.21                         | 5.05                        |
| 6,447.0                                | 1.90               | 248.20         | 6,443.0                     | 11.8            | 78.3            | -11.4                         | 0.23                          | -0.21                        | 2.95                        |
| 6,541.0                                | 1.90               | 238.00         | 6,537.0                     | 10.4            | 75.6            | -10.0                         | 0.36                          | 0.00                         | -10.85                      |
| 6,635.0                                | 2.10               | 240.10         | 6,630.9                     | 8.7             | 72.8            | -8.4                          | 0.23                          | 0.21                         | 2.23                        |
| 6,730.0                                | 1.90               | 244.00         | 6,725.9                     | 7.2             | 69.8            | -6.8                          | 0.25                          | -0.21                        | 4.11                        |
| 6,824.0                                | 2.10               | 249.40         | 6,819.8                     | 5.9             | 66.8            | -5.6                          | 0.29                          | 0.21                         | 5.74                        |
| 6,919.0                                | 2.50               | 289.20         | 6,914.8                     | 6.0             | 63.2            | -5.6                          | 1.69                          | 0.42                         | 41.89                       |
| 7,013.0                                | 2.70               | 287.90         | 7,008.7                     | 7.3             | 59.2            | -7.0                          | 0.22                          | 0.21                         | -1.38                       |
| 7,107.0                                | 2.50               | 287.60         | 7,102.6                     | 8.6             | 55.1            | -8.3                          | 0.21                          | -0.21                        | -0.32                       |
| 7,201.0                                | 2.50               | 282.50         | 7,196.5                     | 9.7             | 51.2            | -9.4                          | 0.24                          | 0.00                         | -5.43                       |
| 7,295.0                                | 2.50               | 276.50         | 7,290.4                     | 10.4            | 47.1            | -10.1                         | 0.28                          | 0.00                         | -6.38                       |
| 7,389.0                                | 2.50               | 274.40         | 7,384.3                     | 10.7            | 43.1            | -10.5                         | 0.10                          | 0.00                         | -2.23                       |
| 7,483.0                                | 2.30               | 272.60         | 7,478.2                     | 11.0            | 39.1            | -10.8                         | 0.23                          | -0.21                        | -1.91                       |
| 7,577.0                                | 2.30               | 271.20         | 7,572.1                     | 11.1            | 35.4            | -10.9                         | 0.06                          | 0.00                         | -1.49                       |
| 7,671.0                                | 2.20               | 269.00         | 7,666.1                     | 11.1            | 31.7            | -11.0                         | 0.14                          | -0.11                        | -2.34                       |
| 7,765.0                                | 2.20               | 266.50         | 7,760.0                     | 11.0            | 28.1            | -10.8                         | 0.10                          | 0.00                         | -2.66                       |
| 7,859.0                                | 1.90               | 260.00         | 7,853.9                     | 10.6            | 24.7            | -10.5                         | 0.40                          | -0.32                        | -6.91                       |
| 7,953.0                                | 2.30               | 254.50         | 7,947.9                     | 9.8             | 21.4            | -9.7                          | 0.48                          | 0.43                         | -5.85                       |
| 8,048.0                                | 2.20               | 255.80         | 8,042.8                     | 8.9             | 17.8            | -8.8                          | 0.12                          | -0.11                        | 1.37                        |
| 8,141.0                                | 2.30               | 255.10         | 8,135.7                     | 8.0             | 14.2            | -7.9                          | 0.11                          | 0.11                         | -0.75                       |
| 8,235.0                                | 2.30               | 245.90         | 8,229.6                     | 6.7             | 10.7            | -6.6                          | 0.39                          | 0.00                         | -9.79                       |
| 8,329.0                                | 2.20               | 254.20         | 8,323.6                     | 5.4             | 7.2             | -5.4                          | 0.36                          | -0.11                        | 8.83                        |
| 8,424.0                                | 2.10               | 251.00         | 8,418.5                     | 4.4             | 3.8             | -4.4                          | 0.16                          | -0.11                        | -3.37                       |
| 8,517.0                                | 2.00               | 249.10         | 8,511.4                     | 3.2             | 0.7             | -3.2                          | 0.13                          | -0.11                        | -2.04                       |
| 8,549.0                                | 2.90               | 231.20         | 8,543.4                     | 2.5             | -0.4            | -2.5                          | 3.66                          | 2.81                         | -55.94                      |
| Crossed Hard Line @ 8580' MD/8574' TVD |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 8,580.0                                | 4.90               | 220.80         | 8,574.3                     | 1.0             | -1.9            | -1.0                          | 6.82                          | 6.45                         | -33.55                      |
| 8,611.0                                | 7.00               | 214.80         | 8,605.2                     | -1.5            | -3.9            | 1.5                           | 7.06                          | 6.77                         | -19.35                      |
| 8,642.0                                | 8.90               | 208.70         | 8,635.9                     | -5.2            | -6.1            | 5.1                           | 6.70                          | 6.13                         | -19.68                      |
| 8,674.0                                | 11.30              | 206.90         | 8,667.4                     | -10.1           | -8.7            | 10.1                          | 7.56                          | 7.50                         | -5.63                       |
| 8,704.0                                | 13.60              | 206.70         | 8,696.7                     | -15.9           | -11.6           | 15.9                          | 7.67                          | 7.67                         | -0.67                       |

|                  |                        |                                     |                                        |
|------------------|------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Conoco Phillips        | <b>Local Co-ordinate Reference:</b> | Well Wilder Federal 28 #2H             |
| <b>Project:</b>  | Lea County, New Mexico | <b>TVD Reference:</b>               | WELL @ 3178.0usft (Original Well Elev) |
| <b>Site:</b>     | Sec 28, T26S, R32E     | <b>MD Reference:</b>                | WELL @ 3178.0usft (Original Well Elev) |
| <b>Well:</b>     | Wilder Federal 28 #2H  | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Wellbore #1            | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

| Survey                |                 |             |                       |             |             |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/S (usft) | +E/W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 8,736.0               | 15.90           | 204.80      | 8,727.6               | -23.3       | -15.1       | 23.2                    | 7.34                    | 7.19                   | -5.94                 |  |
| 8,767.0               | 18.00           | 203.60      | 8,757.3               | -31.5       | -18.8       | 31.4                    | 6.87                    | 6.77                   | -3.87                 |  |
| 8,798.0               | 19.90           | 199.30      | 8,786.6               | -40.9       | -22.5       | 40.8                    | 7.60                    | 6.13                   | -13.87                |  |
| 8,829.0               | 21.50           | 197.80      | 8,815.6               | -51.3       | -26.0       | 51.1                    | 5.44                    | 5.16                   | -4.84                 |  |
| 8,861.0               | 23.60           | 196.90      | 8,845.1               | -63.0       | -29.6       | 62.8                    | 6.65                    | 6.56                   | -2.81                 |  |
| 8,892.0               | 26.00           | 196.00      | 8,873.3               | -75.4       | -33.3       | 75.3                    | 7.84                    | 7.74                   | -2.90                 |  |
| 8,924.0               | 28.80           | 193.50      | 8,901.7               | -89.7       | -37.1       | 89.5                    | 9.46                    | 8.75                   | -7.81                 |  |
| 8,955.0               | 31.20           | 191.60      | 8,928.5               | -104.8      | -40.4       | 104.6                   | 8.33                    | 7.74                   | -6.13                 |  |
| 8,986.0               | 33.40           | 189.50      | 8,954.7               | -121.1      | -43.4       | 120.9                   | 7.97                    | 7.10                   | -6.77                 |  |
| 9,017.0               | 36.20           | 185.40      | 8,980.2               | -138.6      | -45.7       | 138.4                   | 11.77                   | 9.03                   | -13.23                |  |
| 9,049.0               | 37.60           | 183.50      | 9,005.8               | -157.8      | -47.2       | 157.5                   | 5.64                    | 4.38                   | -5.94                 |  |
| 9,080.0               | 39.50           | 180.40      | 9,030.0               | -177.1      | -47.8       | 176.8                   | 8.74                    | 6.13                   | -10.00                |  |
| 9,112.0               | 42.50           | 177.40      | 9,054.2               | -198.1      | -47.4       | 197.8                   | 11.21                   | 9.38                   | -9.38                 |  |
| 9,143.0               | 45.70           | 179.10      | 9,076.4               | -219.6      | -46.8       | 219.4                   | 11.00                   | 10.32                  | 5.48                  |  |
| 9,175.0               | 48.50           | 180.70      | 9,098.2               | -243.1      | -46.7       | 242.8                   | 9.49                    | 8.75                   | 5.00                  |  |
| 9,206.0               | 52.00           | 182.50      | 9,118.0               | -266.9      | -47.4       | 266.6                   | 12.14                   | 11.29                  | 5.81                  |  |
| 9,237.0               | 55.80           | 181.40      | 9,136.3               | -291.9      | -48.3       | 291.7                   | 12.59                   | 12.26                  | -3.55                 |  |
| 9,268.0               | 58.10           | 181.20      | 9,153.2               | -317.9      | -48.8       | 317.6                   | 7.44                    | 7.42                   | -0.65                 |  |
| 9,300.0               | 60.00           | 182.10      | 9,169.7               | -345.3      | -49.6       | 345.1                   | 6.41                    | 5.94                   | 2.81                  |  |
| 9,331.0               | 61.90           | 182.10      | 9,184.7               | -372.4      | -50.6       | 372.1                   | 6.13                    | 6.13                   | 0.00                  |  |
| 9,363.0               | 63.80           | 180.00      | 9,199.3               | -400.9      | -51.1       | 400.6                   | 8.33                    | 5.94                   | -6.56                 |  |
| 9,395.0               | 65.30           | 179.10      | 9,213.1               | -429.8      | -50.9       | 429.5                   | 5.33                    | 4.69                   | -2.81                 |  |
| 9,426.0               | 67.30           | 177.90      | 9,225.5               | -458.1      | -50.2       | 457.9                   | 7.36                    | 6.45                   | -3.87                 |  |
| 9,457.0               | 69.30           | 178.90      | 9,237.0               | -486.9      | -49.4       | 486.7                   | 7.11                    | 6.45                   | 3.23                  |  |
| 9,489.0               | 71.70           | 176.50      | 9,247.7               | -517.1      | -48.2       | 516.8                   | 10.31                   | 7.50                   | -7.50                 |  |
| 9,521.0               | 73.40           | 177.20      | 9,257.3               | -547.5      | -46.5       | 547.3                   | 5.71                    | 5.31                   | 2.19                  |  |
| 9,552.0               | 74.50           | 177.50      | 9,265.8               | -577.3      | -45.1       | 577.1                   | 3.67                    | 3.55                   | 0.97                  |  |
| 9,584.0               | 76.00           | 178.10      | 9,274.0               | -608.2      | -43.9       | 608.0                   | 5.03                    | 4.69                   | 1.88                  |  |
| 9,615.0               | 78.80           | 178.40      | 9,280.7               | -638.5      | -43.0       | 638.2                   | 9.08                    | 9.03                   | 0.97                  |  |
| 9,646.0               | 81.70           | 178.60      | 9,286.0               | -669.0      | -42.2       | 668.8                   | 9.38                    | 9.35                   | 0.65                  |  |
| 9,678.0               | 84.60           | 178.10      | 9,289.8               | -700.7      | -41.3       | 700.5                   | 9.19                    | 9.06                   | -1.56                 |  |
| 9,709.0               | 86.80           | 177.50      | 9,292.1               | -731.6      | -40.1       | 731.4                   | 7.35                    | 7.10                   | -1.94                 |  |
| 9,740.0               | 87.10           | 177.40      | 9,293.8               | -762.6      | -38.7       | 762.4                   | 1.02                    | 0.97                   | -0.32                 |  |
| 9,835.0               | 89.20           | 177.50      | 9,296.9               | -857.4      | -34.5       | 857.2                   | 2.21                    | 2.21                   | 0.11                  |  |
| 9,929.0               | 89.90           | 177.20      | 9,297.6               | -951.3      | -30.1       | 951.1                   | 0.81                    | 0.74                   | -0.32                 |  |
| 10,023.0              | 93.00           | 178.90      | 9,295.2               | -1,045.2    | -26.9       | 1,045.1                 | 3.76                    | 3.30                   | 1.81                  |  |
| 10,117.0              | 91.80           | 176.80      | 9,291.3               | -1,139.1    | -23.4       | 1,138.9                 | 2.57                    | -1.28                  | -2.23                 |  |
| 10,211.0              | 88.20           | 175.30      | 9,291.3               | -1,232.8    | -16.9       | 1,232.7                 | 4.15                    | -3.83                  | -1.60                 |  |
| 10,305.0              | 88.10           | 175.60      | 9,294.3               | -1,326.5    | -9.5        | 1,326.4                 | 0.34                    | -0.11                  | 0.32                  |  |
| 10,400.0              | 87.80           | 175.30      | 9,297.7               | -1,421.1    | -2.0        | 1,421.1                 | 0.45                    | -0.32                  | -0.32                 |  |
| 10,494.0              | 89.30           | 176.30      | 9,300.1               | -1,514.8    | 4.9         | 1,514.8                 | 1.92                    | 1.60                   | 1.06                  |  |
| 10,588.0              | 88.80           | 178.90      | 9,301.6               | -1,608.7    | 8.9         | 1,608.7                 | 2.82                    | -0.53                  | 2.77                  |  |
| 10,682.0              | 89.80           | 181.80      | 9,302.8               | -1,702.7    | 8.3         | 1,702.7                 | 3.26                    | 1.06                   | 3.09                  |  |

|           |                        |                              |                                        |
|-----------|------------------------|------------------------------|----------------------------------------|
| Company:  | ConocoPhillips         | Local Co-ordinate Reference: | Well Wilder Federal 28 #2H             |
| Project:  | Lea County, New Mexico | TVD Reference:               | WELL @ 3178.0usft (Original Well Elev) |
| Site:     | Sec 28, T26S, R32E     | MD Reference:                | WELL @ 3178.0usft (Original Well Elev) |
| Well:     | Wilder Federal 28 #2H  | North Reference:             | Grid                                   |
| Wellbore: | Wellbore #1            | Survey Calculation Method:   | Minimum Curvature                      |
| Design:   | Wellbore #1            | Database:                    | EDM 5000.1 Single User Db              |

| Measured Depth (usft)      | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,775.0                   | 91.60           | 181.20      | 9,301.7               | -1,795.7     | 5.8          | 1,795.7                 | 2.04                    | 1.94                   | -0.65                 |
| 10,870.0                   | 91.40           | 179.30      | 9,299.2               | -1,890.6     | 5.4          | 1,890.6                 | 2.01                    | -0.21                  | -2.00                 |
| 10,965.0                   | 92.90           | 180.00      | 9,295.6               | -1,985.5     | 6.0          | 1,985.5                 | 1.74                    | 1.58                   | 0.74                  |
| 11,059.0                   | 92.00           | 177.90      | 9,291.6               | -2,079.4     | 7.7          | 2,079.4                 | 2.43                    | -0.96                  | -2.23                 |
| 11,154.0                   | 89.70           | 177.00      | 9,290.2               | -2,174.3     | 12.0         | 2,174.4                 | 2.60                    | -2.42                  | -0.95                 |
| 11,249.0                   | 89.50           | 176.70      | 9,290.8               | -2,269.2     | 17.2         | 2,269.2                 | 0.38                    | -0.21                  | -0.32                 |
| 11,343.0                   | 89.90           | 176.80      | 9,291.3               | -2,363.0     | 22.5         | 2,363.1                 | 0.44                    | 0.43                   | 0.11                  |
| 11,437.0                   | 91.20           | 177.20      | 9,290.4               | -2,456.9     | 27.4         | 2,457.0                 | 1.45                    | 1.38                   | 0.43                  |
| 11,531.0                   | 90.00           | 178.80      | 9,289.4               | -2,550.8     | 30.7         | 2,550.9                 | 2.13                    | -1.28                  | 1.70                  |
| 11,625.0                   | 90.80           | 178.80      | 9,288.8               | -2,644.8     | 32.7         | 2,644.9                 | 0.85                    | 0.85                   | 0.00                  |
| 11,719.0                   | 89.70           | 179.10      | 9,288.4               | -2,738.8     | 34.4         | 2,738.9                 | 1.21                    | -1.17                  | 0.32                  |
| 11,813.0                   | 88.10           | 181.20      | 9,290.2               | -2,832.8     | 34.2         | 2,832.9                 | 2.81                    | -1.70                  | 2.23                  |
| 11,907.0                   | 87.80           | 180.40      | 9,293.6               | -2,926.7     | 32.8         | 2,926.8                 | 0.91                    | -0.32                  | -0.85                 |
| 12,001.0                   | 88.80           | 180.40      | 9,296.3               | -3,020.6     | 32.2         | 3,020.8                 | 1.06                    | 1.06                   | 0.00                  |
| 12,095.0                   | 90.40           | 181.20      | 9,297.0               | -3,114.6     | 30.9         | 3,114.7                 | 1.90                    | 1.70                   | 0.85                  |
| 12,189.0                   | 90.10           | 181.20      | 9,296.6               | -3,208.6     | 28.9         | 3,208.7                 | 0.32                    | -0.32                  | 0.00                  |
| 12,283.0                   | 90.70           | 179.80      | 9,295.9               | -3,302.6     | 28.1         | 3,302.7                 | 1.62                    | 0.64                   | -1.49                 |
| 12,378.0                   | 90.50           | 180.40      | 9,294.9               | -3,397.6     | 27.9         | 3,397.7                 | 0.67                    | -0.21                  | 0.63                  |
| 12,472.0                   | 89.70           | 180.90      | 9,294.8               | -3,491.6     | 26.9         | 3,491.7                 | 1.00                    | -0.85                  | 0.53                  |
| 12,567.0                   | 89.30           | 180.40      | 9,295.6               | -3,586.6     | 25.8         | 3,586.7                 | 0.67                    | -0.42                  | -0.53                 |
| 12,661.0                   | 88.90           | 180.50      | 9,297.1               | -3,680.6     | 25.0         | 3,680.6                 | 0.44                    | -0.43                  | 0.11                  |
| 12,755.0                   | 89.80           | 179.30      | 9,298.1               | -3,774.5     | 25.2         | 3,774.6                 | 1.60                    | 0.96                   | -1.28                 |
| 12,849.0                   | 91.50           | 179.10      | 9,297.1               | -3,868.5     | 26.5         | 3,868.6                 | 1.82                    | 1.81                   | -0.21                 |
| 12,943.0                   | 90.90           | 181.10      | 9,295.1               | -3,962.5     | 26.4         | 3,962.6                 | 2.22                    | -0.64                  | 2.13                  |
| 13,038.0                   | 92.30           | 181.60      | 9,292.5               | -4,057.4     | 24.1         | 4,057.5                 | 1.56                    | 1.47                   | 0.53                  |
| 13,131.0                   | 90.00           | 180.20      | 9,290.6               | -4,150.4     | 22.7         | 4,150.5                 | 2.90                    | -2.47                  | -1.51                 |
| 13,225.0                   | 89.40           | 181.80      | 9,291.1               | -4,244.4     | 21.0         | 4,244.4                 | 1.82                    | -0.64                  | 1.70                  |
| 13,319.0                   | 90.00           | 180.40      | 9,291.6               | -4,338.4     | 19.2         | 4,338.4                 | 1.62                    | 0.64                   | -1.49                 |
| 13,413.0                   | 90.40           | 181.60      | 9,291.2               | -4,432.3     | 17.6         | 4,432.4                 | 1.35                    | 0.43                   | 1.28                  |
| 13,507.0                   | 90.80           | 180.00      | 9,290.3               | -4,526.3     | 16.3         | 4,526.3                 | 1.75                    | 0.43                   | -1.70                 |
| 13,531.0                   | 90.80           | 181.40      | 9,289.9               | -4,550.3     | 16.0         | 4,550.3                 | 5.83                    | 0.00                   | 5.83                  |
| TD @ 13584' MD / 9289' TVD |                 |             |                       |              |              |                         |                         |                        |                       |
| 13,584.0                   | 90.80           | 181.40      | 9,289.2               | -4,603.3     | 14.7         | 4,603.3                 | 0.00                    | 0.00                   | 0.00                  |

| Measured Depth (usft) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Comment                                  |
|-----------------------|-----------------------|--------------|--------------|------------------------------------------|
| 4,175.0               | 4,172.1               | 16.1         | 106.3        | Tie In @ 4175' MD / 4172' TVD            |
| 8,580.0               | 8,574.3               | 1.0          | -1.9         | Crossed Hard Line @ 8580' MD / 8574' TVD |
| 13,584.0              | 9,289.2               | -4,603.3     | 14.7         | TD @ 13584' MD / 9289' TVD               |

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