

## COP Deviation Report

ConocoPhillips

## SAN JUAN 30-6 UNIT #14N

|                                                          |                                           |                         |                         |                              |
|----------------------------------------------------------|-------------------------------------------|-------------------------|-------------------------|------------------------------|
| Operator<br>BURLINGTON RESOURCES OIL &<br>GAS COMPANY LP | Legal WellName<br>SAN JUAN 30-6 UNIT #14N | API / UWI<br>3003930831 | County<br>RIO ARRIBA    | State/Province<br>NEW MEXICO |
| Surface Legal Location<br>032-030N-006W-M                | N/S Dist (ft)<br>1,101.00                 | N/S Ref<br>FSL          | E/W Dist (ft)<br>726.00 | E/W Ref<br>FWL               |

## Survey Data

| Date      | MD (ftKB) | Incl (°) | Method     | Survey Company     |
|-----------|-----------|----------|------------|--------------------|
| 4/27/2010 | 0.00      | 0.00     | IncAzi-MWD | Pathfinder         |
| 4/7/2010  | 233.00    | 1.00     | Inc-Drop   | MO-TE DRILLING INC |
| 4/27/2010 | 271.00    | 1.23     | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 301.00    | 0.44     | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 331.00    | 0.97     | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 362.00    | 2.55     | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 393.00    | 3.87     | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 424.00    | 5.01     | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 454.00    | 6.24     | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 485.00    | 7.12     | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 516.00    | 7.47     | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 547.00    | 8.44     | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 577.00    | 9.58     | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 608.00    | 10.55    | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 639.00    | 11.43    | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 670.00    | 12.49    | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 701.00    | 13.28    | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 732.00    | 13.89    | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 763.00    | 14.86    | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 794.00    | 15.74    | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 824.00    | 16.71    | IncAzi-MWD | Pathfinder         |
| 4/27/2010 | 856.00    | 17.50    | IncAzi-MWD | Pathfinder         |
| 4/28/2010 | 887.00    | 18.29    | IncAzi-MWD | Pathfinder         |
| 4/28/2010 | 918.00    | 19.17    | IncAzi-MWD | Pathfinder         |
| 4/28/2010 | 948.00    | 20.05    | IncAzi-MWD | Pathfinder         |
| 4/28/2010 | 979.00    | 21.54    | IncAzi-MWD | Pathfinder         |
| 4/28/2010 | 1,010.00  | 22.51    | IncAzi-MWD | Pathfinder         |
| 4/28/2010 | 1,041.00  | 23.13    | IncAzi-MWD | Pathfinder         |
| 4/28/2010 | 1,072.00  | 23.39    | IncAzi-MWD | Pathfinder         |
| 4/28/2010 | 1,103.00  | 24.09    | IncAzi-MWD | Pathfinder         |
| 4/28/2010 | 1,196.00  | 24.71    | IncAzi-MWD | Pathfinder         |
| 4/28/2010 | 1,289.00  | 24.89    | IncAzi-MWD | Pathfinder         |
| 4/28/2010 | 1,417.00  | 24.01    | IncAzi-MWD | Pathfinder         |
| 4/28/2010 | 1,480.00  | 26.29    | IncAzi-MWD | Pathfinder         |
| 4/28/2010 | 1,574.00  | 25.59    | IncAzi-MWD | Pathfinder         |

I, the undersigned, certify that I acting in my capacity as Drilling Engineer for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

*Tom D. Delmonico*

Subscribed and sworn to me this 7/7/10

*Patricia R. Clouston*

Notary Public in and for San Juan County, New Mexico

My Commission expires 10/2/12

| Survey Data |           |          |            |                |  |
|-------------|-----------|----------|------------|----------------|--|
| Date        | MD (ftKB) | Incl (°) | Method     | Survey Company |  |
| 4/28/2010   | 1,669.00  | 26.47    | IncAzi-MWD | Pathfinder     |  |
| 4/28/2010   | 1,763.00  | 26.82    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 1,858.00  | 26.38    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 1,953.00  | 26.73    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,047.00  | 26.64    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,141.00  | 26.64    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,235.00  | 26.38    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,330.00  | 26.20    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,424.00  | 26.20    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,519.00  | 26.47    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,614.00  | 25.50    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,645.00  | 25.24    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,677.00  | 23.74    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,708.00  | 22.25    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,740.00  | 21.02    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,803.00  | 20.22    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,866.00  | 18.91    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,929.00  | 18.03    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 2,992.00  | 16.09    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 3,055.00  | 14.42    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 3,119.00  | 12.49    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 3,182.00  | 10.73    | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 3,245.00  | 9.50     | IncAzi-MWD | Pathfinder     |  |
| 4/29/2010   | 3,308.00  | 8.53     | IncAzi-MWD | Pathfinder     |  |
| 4/30/2010   | 3,372.00  | 7.56     | IncAzi-MWD | Pathfinder     |  |
| 4/30/2010   | 3,435.00  | 6.68     | IncAzi-MWD | Pathfinder     |  |
| 4/30/2010   | 3,498.00  | 6.42     | IncAzi-MWD | Pathfinder     |  |
| 4/30/2010   | 3,561.00  | 5.63     | IncAzi-MWD | Pathfinder     |  |
| 4/30/2010   | 3,624.00  | 4.83     | IncAzi-MWD | Pathfinder     |  |
| 4/30/2010   | 3,687.00  | 4.04     | IncAzi-MWD | Pathfinder     |  |
| 4/30/2010   | 3,750.00  | 3.87     | IncAzi-MWD | Pathfinder     |  |
| 4/30/2010   | 3,813.00  | 3.87     | IncAzi-MWD | Pathfinder     |  |
| 4/30/2010   | 3,876.00  | 3.25     | IncAzi-MWD | Pathfinder     |  |
| 4/30/2010   | 3,939.00  | 2.90     | IncAzi-MWD | Pathfinder     |  |
| 4/30/2010   | 4,030.00  | 2.64     | IncAzi-MWD | Pathfinder     |  |
| 4/30/2010   | 4,081.00  | 2.64     | IncAzi-MWD | Pathfinder     |  |
| 5/12/2010   | 8,230.00  | 1.75     | Inc-WL     | PHOENIX        |  |

I, the undersigned, certify that I acting in my capacity as Drilling Engineer for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Paul Dalesandro

Subscribed and sworn to me this 7/1/10

Patricia A. Chiswick

Notary Public in and for San Juan County, New Mexico

My Commission expires 10/2/12



## Conoco Phillips

Rio Arriba County(NAD27)

San Juan 30-6

#14N

S-Well

Survey: MWD #1 #14N

## Standard Survey Report

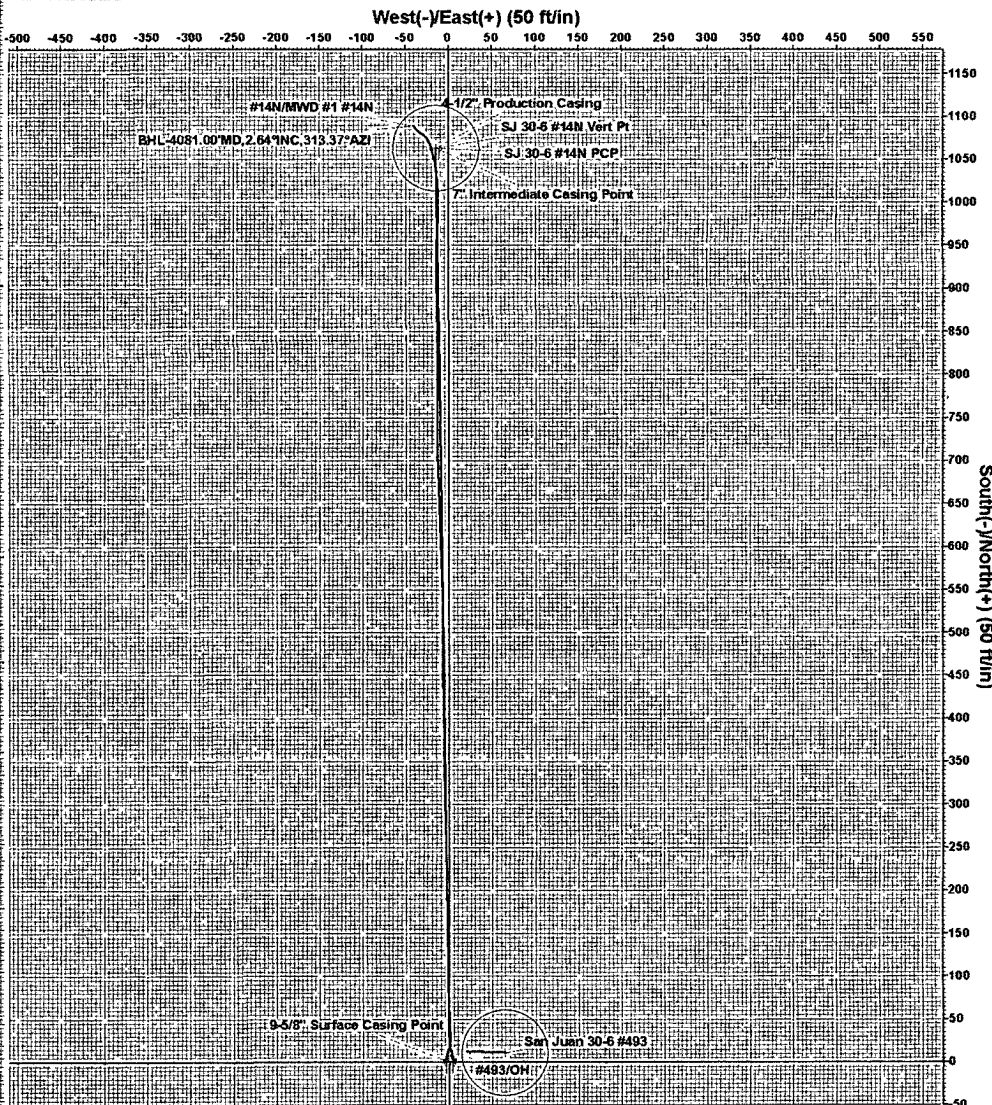
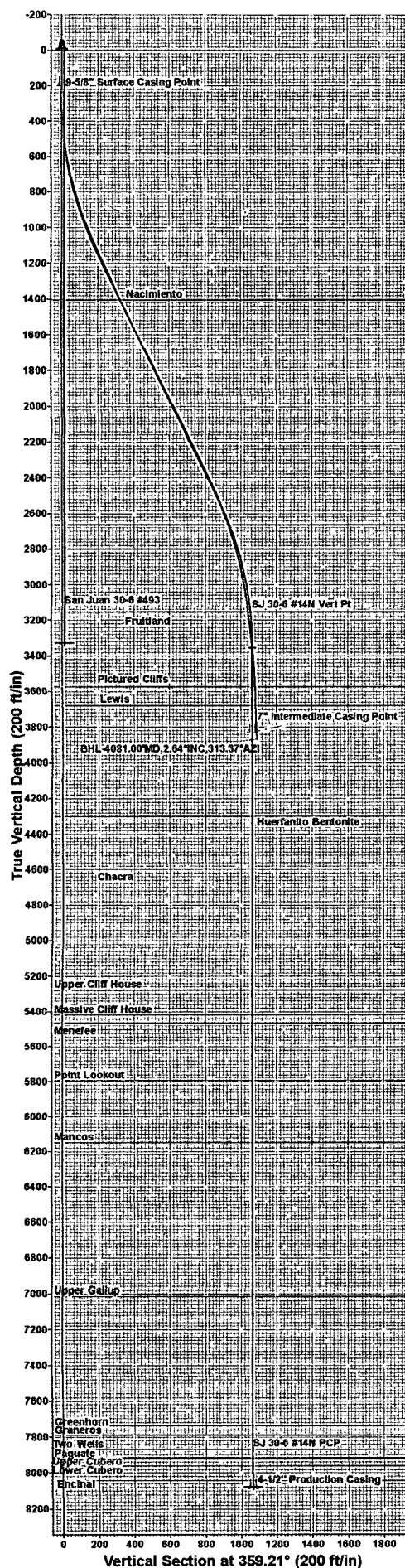
04 May, 2010

**PATHFINDER**

7/8/10

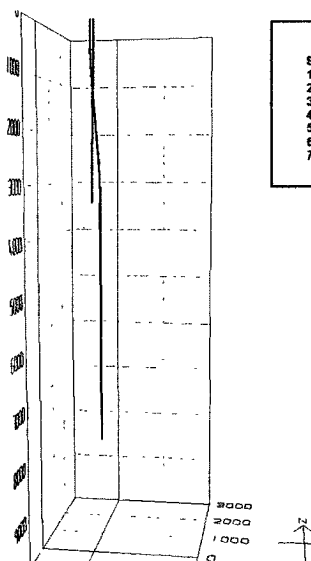


Azimuths to True North  
Magnetic North: 9.92°  
Magnetic Field  
Strength: 51028.0anT  
Dip Angle: 63.58°  
Date: 04/13/2010  
Model: BGGM 2009



| WELL DETAILS: #14N                                  |       |             |            |                  |                   |      |
|-----------------------------------------------------|-------|-------------|------------|------------------|-------------------|------|
| Ground Elevation: 6655.00                           |       |             |            |                  |                   |      |
| RKB Elevation: WELL @ 6670.00R (Original Well Elev) |       |             |            |                  |                   |      |
| Rig Name: Original Well Elev                        |       |             |            |                  |                   |      |
| +N/-S                                               | +E/-W | Northing    | Easting    | Latitude         | Longitude         | Slot |
| 0.00                                                | 0.00  | 2100004.729 | 138135.453 | 36° 45' 53.616 N | 107° 29' 32.011 W |      |

| SECTION DETAILS |         |       |        |         |         |        |      |        |         |                      |
|-----------------|---------|-------|--------|---------|---------|--------|------|--------|---------|----------------------|
| Sec             | MD      | Inc   | Azi    | TVD     | +N/-S   | +E/-W  | Dleg | TFace  | VSec    | Target               |
| 1               | 0.00    | 0.00  | 0.00   | 0.00    | 0.00    | 0.00   | 0.00 | 0.00   | 0.00    |                      |
| 2               | 300.00  | 0.00  | 0.00   | 300.00  | 0.00    | 0.00   | 0.00 | 0.00   | 0.00    |                      |
| 3               | 1172.00 | 26.16 | 359.21 | 1142.01 | 195.61  | -2.69  | 3.00 | 359.21 | 195.63  |                      |
| 4               | 2698.08 | 26.16 | 359.21 | 2509.99 | 867.49  | -11.91 | 0.00 | 0.00   | 867.57  |                      |
| 5               | 3588.08 | 0.00  | 0.00   | 3582.00 | 1063.10 | -14.60 | 3.00 | 166.00 | 1063.20 | SJ 30-6 #14N Vert Pt |
| 6               | 4048.08 | 0.00  | 0.00   | 3830.00 | 1063.10 | -14.60 | 0.00 | 0.00   | 1063.20 |                      |
| 7               | 8301.08 | 0.00  | 0.00   | 8085.00 | 1063.10 | -14.60 | 0.00 | 0.00   | 1063.20 |                      |



PROJECT DETAILS: Rio Arriba County(NAD27)  
Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico Central 3002  
System Datum: Mean Sea Level  
Local North: True

Plan Plan #2 (#14N/S-Well)  
Created By: Nate Blingham Date: 14.00, May 04 2010  
Checked: \_\_\_\_\_ Date: \_\_\_\_\_

|           |                          |                              |                                       |
|-----------|--------------------------|------------------------------|---------------------------------------|
| Company:  | Conoco Phillips          | Local Co-ordinate Reference: | Well #14N                             |
| Project:  | Rio Arriba County(NAD27) | TVD Reference:               | WELL @ 6670.00ft (Original Well Elev) |
| Site:     | San Juan 30-6            | MD Reference:                | WELL @ 6670.00ft (Original Well Elev) |
| Well:     | #14N                     | North Reference:             | True                                  |
| Wellbore: | S-Well                   | Survey Calculation Method:   | Minimum Curvature                     |
| Design:   | S-Well                   | Database:                    | Midland Database                      |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project:    | Rio Arriba County(NAD27)             |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico Central 3002              |               |                |

|       |               |  |  |
|-------|---------------|--|--|
| Site: | San Juan 30-6 |  |  |
|-------|---------------|--|--|

|                       |          |              |                  |                   |                   |
|-----------------------|----------|--------------|------------------|-------------------|-------------------|
| Site Position:        |          | Northing:    | 2,102,035 511 ft | Latitude:         | 36° 46' 10.000 N  |
| From:                 | Lat/Long | Easting:     | 108,396 412 ft   | Longitude:        | 107° 35' 13 200 W |
| Position Uncertainty: | 0.00 ft  | Slot Radius: | "                | Grid Convergence: | -0.80 °           |

|                      |         |                     |           |                  |             |                   |
|----------------------|---------|---------------------|-----------|------------------|-------------|-------------------|
| Well                 | #14N    |                     |           |                  |             |                   |
| Well Position        | +N/-S   | 0.00 ft             | Northing: | 2,100,004 729 ft | Latitude:   | 36° 45' 53.618 N  |
|                      | +E/-W   | 0 00 ft             | Easting:  | 136,135.453 ft   | Longitude:  | 107° 29' 32 011 W |
| Position Uncertainty | 3.50 ft | Wellhead Elevation: | ft        | Ground Level:    | 6,655.00 ft |                   |

|           |        |  |  |  |  |
|-----------|--------|--|--|--|--|
| Wellbore: | S-Well |  |  |  |  |
|-----------|--------|--|--|--|--|

| Magnetics | Model Name   | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|-----------|--------------|-------------|--------------------|------------------|------------------------|
|           | User Defined | 04/13/2010  | 9.92               | 63.59            | 51,028                 |

|         |        |  |  |  |  |
|---------|--------|--|--|--|--|
| Design: | S-Well |  |  |  |  |
|---------|--------|--|--|--|--|

|                   |                          |               |               |                  |      |
|-------------------|--------------------------|---------------|---------------|------------------|------|
| Audit Notes:      |                          |               |               |                  |      |
| Version:          | 1.0                      | Phase:        | ACTUAL        | Tie On Depth:    | 0.00 |
| Vertical Section: | Depth From (TVD)<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Direction<br>(°) |      |
|                   | 0.00                     | 0.00          | 0.00          | 357.88           |      |

| Survey Program | Date 05/04/2010 |                      |           |                |  |
|----------------|-----------------|----------------------|-----------|----------------|--|
| From<br>(ft)   | To<br>(ft)      | Survey (Wellbore)    | Tool Name | Description    |  |
| 271.00         | 4,081.00        | MWD #1 #14N (S-Well) | MWD       | MWD - Standard |  |

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 0.00                      | 0.00               | 0.00           | 0.00                      | 0.00          | 0.00          | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| 271.00                    | 1.23               | 182.50         | 270.98                    | -2.91         | -0.13         | -2.90                       | 0.45                        | 0.45                       | 0.00                      |
| 301.00                    | 0.44               | 177.45         | 300.98                    | -3.34         | -0.14         | -3.34                       | 2.64                        | -2.63                      | -16.83                    |
| 331.00                    | 0.97               | 4.65           | 330.97                    | -3.20         | -0.11         | -3.20                       | 4.69                        | 1.77                       | -576.00                   |
| 362.00                    | 2.55               | 5.07           | 361.96                    | -2.26         | -0.03         | -2.25                       | 5.10                        | 5.10                       | 1.35                      |
| 393.00                    | 3.87               | 4.56           | 392.91                    | -0.53         | 0.12          | -0.53                       | 4.26                        | 4.26                       | -1.65                     |
| 424.00                    | 5.01               | 4.81           | 423.82                    | 1.87          | 0.31          | 1.85                        | 3.68                        | 3.68                       | 0.81                      |
| 454.00                    | 6.24               | 4.10           | 453.67                    | 4.80          | 0.54          | 4.77                        | 4.11                        | 4.10                       | -2.37                     |
| 485.00                    | 7.12               | 4.43           | 484.46                    | 8.39          | 0.81          | 8.36                        | 2.84                        | 2.84                       | 1.06                      |
| 516.00                    | 7.47               | 1.26           | 515.21                    | 12.32         | 1.00          | 12.28                       | 1.72                        | 1.13                       | -10.23                    |
| 547.00                    | 8.44               | 0.19           | 545.91                    | 16.61         | 1.05          | 16.56                       | 3.17                        | 3.13                       | -3.45                     |
| 577.00                    | 9.58               | 358.42         | 575.54                    | 21.31         | 0.99          | 21.26                       | 3.91                        | 3.80                       | -5.90                     |
| 608.00                    | 10.55              | 358.05         | 606.06                    | 26.73         | 0.82          | 26.68                       | 3.14                        | 3.13                       | -1.19                     |

|                  |                          |                                     |                                       |
|------------------|--------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Conoco Phillips          | <b>Local Co-ordinate Reference:</b> | Well #14N                             |
| <b>Project:</b>  | Rio Arriba County(NAD27) | <b>TVD Reference:</b>               | WELL @ 6670.00ft (Original Well Elev) |
| <b>Site:</b>     | San Juan 30-6            | <b>MD Reference:</b>                | WELL @ 6670.00ft (Original Well Elev) |
| <b>Well:</b>     | #14N                     | <b>North Reference:</b>             | True                                  |
| <b>Wellbore:</b> | S-Well                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | S-Well                   | <b>Database:</b>                    | Midland Database                      |

| Survey               |                 |             |                     |            |            |                       |                       |                      |                     |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)  | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 639.00               | 11.43           | 357.75      | 636.49              | 32.63      | 0.61       | 32.59                 | 2.84                  | 2.84                 | -0.97               |
| 670.00               | 12.49           | 358.70      | 666.82              | 39.05      | 0.41       | 39.01                 | 3.48                  | 3.42                 | 3.06                |
| 701.00               | 13.28           | 358.34      | 697.04              | 45.96      | 0.23       | 45.92                 | 2.56                  | 2.55                 | -1.16               |
| 732.00               | 13.89           | 358.53      | 727.17              | 53.24      | 0.03       | 53.20                 | 1.97                  | 1.97                 | 0.61                |
| 763.00               | 14.86           | 357.95      | 757.20              | 60.93      | -0.21      | 60.90                 | 3.16                  | 3.13                 | -1.87               |
| 794.00               | 15.74           | 358.99      | 787.10              | 69.11      | -0.42      | 69.08                 | 2.97                  | 2.84                 | 3.35                |
| 824.00               | 16.71           | 357.88      | 815.91              | 77.49      | -0.65      | 77.46                 | 3.39                  | 3.23                 | -3.70               |
| 856.00               | 17.50           | 358.39      | 846.49              | 86.90      | -0.96      | 86.87                 | 2.51                  | 2.47                 | 1.59                |
| 887.00               | 18.29           | 359.17      | 875.99              | 96.42      | -1.16      | 96.40                 | 2.66                  | 2.55                 | 2.52                |
| 918.00               | 19.17           | 358.90      | 905.35              | 106.37     | -1.33      | 106.35                | 2.85                  | 2.84                 | -0.87               |
| 948.00               | 20.05           | 359.18      | 933.61              | 116.44     | -1.50      | 116.41                | 2.95                  | 2.93                 | 0.93                |
| 979.00               | 21.54           | 359.90      | 962.59              | 127.44     | -1.58      | 127.41                | 4.88                  | 4.81                 | 2.32                |
| 1,010.00             | 22.51           | 359.00      | 991.33              | 139.07     | -1.70      | 139.04                | 3.31                  | 3.13                 | -2.90               |
| 1,041.00             | 23.13           | 359.30      | 1,019.90            | 151.09     | -1.87      | 151.06                | 2.03                  | 2.00                 | 0.97                |
| 1,072.00             | 23.39           | 359.86      | 1,048.38            | 163.33     | -1.96      | 163.29                | 1.10                  | 0.84                 | 1.81                |
| 1,103.00             | 24.09           | 359.09      | 1,076.76            | 175.81     | -2.08      | 175.77                | 2.47                  | 2.26                 | -2.48               |
| 1,196.00             | 24.71           | 359.10      | 1,161.45            | 214.22     | -2.69      | 214.18                | 0.67                  | 0.67                 | 0.01                |
| 1,289.00             | 24.89           | 358.83      | 1,245.87            | 253.23     | -3.39      | 253.18                | 0.23                  | 0.19                 | -0.29               |
| 1,417.00             | 24.01           | 357.83      | 1,362.39            | 306.18     | -4.93      | 306.15                | 0.76                  | -0.69                | -0.78               |
| 1,480.00             | 26.29           | 359.08      | 1,419.42            | 332.94     | -5.64      | 332.92                | 3.72                  | 3.62                 | 1.98                |
| 1,574.00             | 25.59           | 359.10      | 1,503.95            | 374.06     | -6.29      | 374.03                | 0.74                  | -0.74                | 0.02                |
| 1,669.00             | 26.47           | 359.00      | 1,589.31            | 415.74     | -6.98      | 415.71                | 0.93                  | 0.93                 | -0.11               |
| 1,763.00             | 26.82           | 359.88      | 1,673.33            | 457.89     | -7.39      | 457.85                | 0.56                  | 0.37                 | 0.94                |
| 1,858.00             | 26.38           | 0.21        | 1,758.27            | 500.43     | -7.36      | 500.36                | 0.49                  | -0.46                | 0.35                |
| 1,953.00             | 26.73           | 359.26      | 1,843.25            | 542.90     | -7.56      | 542.81                | 0.58                  | 0.37                 | -1.00               |
| 2,047.00             | 26.64           | 357.85      | 1,927.24            | 585.09     | -8.62      | 585.01                | 0.68                  | -0.10                | -1.50               |
| 2,141.00             | 26.64           | 357.61      | 2,011.26            | 627.21     | -10.29     | 627.16                | 0.11                  | 0.00                 | -0.26               |
| 2,235.00             | 26.38           | 357.77      | 2,095.38            | 669.13     | -11.98     | 669.12                | 0.29                  | -0.28                | 0.17                |
| 2,330.00             | 26.20           | 359.35      | 2,180.55            | 711.19     | -13.04     | 711.19                | 0.76                  | -0.19                | 1.66                |
| 2,424.00             | 26.20           | 359.83      | 2,264.89            | 752.69     | -13.34     | 752.67                | 0.23                  | 0.00                 | 0.51                |
| 2,519.00             | 26.47           | 359.90      | 2,350.03            | 794.84     | -13.44     | 794.79                | 0.29                  | 0.28                 | 0.07                |
| 2,614.00             | 25.50           | 359.88      | 2,435.43            | 836.46     | -13.52     | 836.39                | 1.02                  | -1.02                | -0.02               |
| 2,645.00             | 25.24           | 359.78      | 2,463.44            | 849.74     | -13.56     | 849.66                | 0.85                  | -0.84                | -0.32               |
| 2,677.00             | 23.74           | 359.89      | 2,492.56            | 863.01     | -13.59     | 862.92                | 4.69                  | -4.69                | 0.34                |
| 2,708.00             | 22.25           | 0.14        | 2,521.10            | 875.12     | -13.59     | 875.02                | 4.82                  | -4.81                | 0.81                |
| 2,740.00             | 21.02           | 359.28      | 2,550.84            | 886.91     | -13.65     | 886.81                | 3.97                  | -3.84                | -2.69               |
| 2,803.00             | 20.22           | 359.92      | 2,609.81            | 909.10     | -13.81     | 908.99                | 1.32                  | -1.27                | 1.02                |
| 2,866.00             | 18.91           | 358.89      | 2,669.17            | 930.19     | -14.02     | 930.08                | 2.15                  | -2.08                | -1.63               |
| 2,929.00             | 18.03           | 2.24        | 2,728.92            | 950.14     | -13.84     | 950.01                | 2.19                  | -1.40                | 5.32                |
| 2,992.00             | 16.09           | 1.64        | 2,789.15            | 968.61     | -13.21     | 968.44                | 3.09                  | -3.08                | -0.95               |
| 3,055.00             | 14.42           | 0.33        | 2,849.93            | 985.19     | -12.91     | 984.99                | 2.71                  | -2.65                | -2.08               |
| 3,119.00             | 12.49           | 359.77      | 2,912.17            | 1,000.08   | -12.89     | 999.87                | 3.02                  | -3.02                | -0.87               |
| 3,182.00             | 10.73           | 359.91      | 2,973.87            | 1,012.75   | -12.93     | 1,012.54              | 2.79                  | -2.79                | 0.22                |
| 3,245.00             | 9.50            | 357.90      | 3,035.89            | 1,023.82   | -13.13     | 1,023.60              | 2.03                  | -1.95                | -3.19               |
| 3,308.00             | 8.53            | 352.72      | 3,098.12            | 1,033.65   | -13.91     | 1,033.45              | 2.01                  | -1.54                | -8.22               |
| 3,372.00             | 7.56            | 351.46      | 3,161.49            | 1,042.52   | -15.14     | 1,042.36              | 1.54                  | -1.52                | -1.97               |
| 3,408.04             | 7.05            | 348.50      | 3,197.24            | 1,047.03   | -15.93     | 1,046.90              | 1.76                  | -1.42                | -8.22               |
| San Juan 30-6 #493   |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,435.00             | 6.68            | 345.99      | 3,224.00            | 1,050.17   | -16.64     | 1,050.07              | 1.76                  | -1.37                | -9.30               |
| 3,498.00             | 6.42            | 346.06      | 3,286.59            | 1,057.15   | -18.38     | 1,057.10              | 0.41                  | -0.41                | 0.11                |
| 3,561.00             | 5.63            | 341.63      | 3,349.24            | 1,063.50   | -20.20     | 1,063.52              | 1.45                  | -1.25                | -7.03               |
| 3,563.55             | 5.60            | 341.57      | 3,351.77            | 1,063.73   | -20.28     | 1,063.76              | 1.29                  | -1.27                | -2.23               |
| SJ 30-6 #14N Vert Pt |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,624.00             | 4.83            | 340.00      | 3,411.98            | 1,068.92   | -22.08     | 1,069.01              | 1.29                  | -1.27                | -2.60               |

|                  |                          |                                     |                                       |
|------------------|--------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Conoco Phillips          | <b>Local Co-ordinate Reference:</b> | Well #14N                             |
| <b>Project:</b>  | Rio Arriba County(NAD27) | <b>TVD Reference:</b>               | WELL @ 6670.00ft (Original Well Elev) |
| <b>Site:</b>     | San Juan 30-6            | <b>MD Reference:</b>                | WELL @ 6670.00ft (Original Well Elev) |
| <b>Well:</b>     | #14N                     | <b>North Reference:</b>             | True                                  |
| <b>Wellbore:</b> | S-Well                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | S-Well                   | <b>Database:</b>                    | Midland Database                      |

| Survey                                                                                                       |                 |             |                     |            |            |                       |                       |                      |                     |  |
|--------------------------------------------------------------------------------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (ft)                                                                                          | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |  |
| 3,687.00                                                                                                     | 4.04            | 328.36      | 3,474.79            | 1,073.30   | -24.15     | 1,073.46              | 1.89                  | -1.25                | -18.48              |  |
| 3,750.00                                                                                                     | 3.87            | 310.78      | 3,537.64            | 1,076.58   | -26.93     | 1,076.84              | 1.94                  | -0.27                | -27.90              |  |
| 3,813.00                                                                                                     | 3.87            | 310.14      | 3,600.50            | 1,079.34   | -30.16     | 1,079.72              | 0.07                  | 0.00                 | -1.02               |  |
| 3,876.00                                                                                                     | 3.25            | 314.10      | 3,663.38            | 1,081.95   | -33.07     | 1,082.44              | 1.06                  | -0.98                | 6.29                |  |
| 3,939.00                                                                                                     | 2.90            | 316.00      | 3,726.29            | 1,084.34   | -35.46     | 1,084.91              | 0.58                  | -0.56                | 3.02                |  |
| 4,030.00                                                                                                     | 2.64            | 313.37      | 3,817.18            | 1,087.44   | -38.58     | 1,088.12              | 0.32                  | -0.29                | -2.89               |  |
| 4,081.00                                                                                                     | 2.64            | 313.37      | 3,868.13            | 1,089.05   | -40.29     | 1,089.80              | 0.00                  | 0.00                 | 0.00                |  |
| BHL-4081.00' MD, 2.64° INC, 313.37° AZI, 3868.13' TVD, 1089.80' VS, 1089.05' N, -40.29' E - SJ 30-6 #14N PCP |                 |             |                     |            |            |                       |                       |                      |                     |  |

| Targets                                                                                       |               |              |          |            |            |               |              |                  |                   |  |
|-----------------------------------------------------------------------------------------------|---------------|--------------|----------|------------|------------|---------------|--------------|------------------|-------------------|--|
| Target Name                                                                                   | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude         | Longitude         |  |
| - hit/miss target                                                                             |               |              |          |            |            |               |              |                  |                   |  |
| - Shape                                                                                       |               |              |          |            |            |               |              |                  |                   |  |
| SJ 30-6 #14N PCP                                                                              | 0.00          | 0.00         | 8,075.00 | 1,063.10   | -14.60     | 2,101,067.929 | 136,134.652  | 36° 46' 4.129 N  | 107° 29' 32.190 W |  |
| - survey misses target center by 4207.03ft at 4081.00ft MD (3868.13 TVD, 1089.05 N, -40.29 E) |               |              |          |            |            |               |              |                  |                   |  |
| - Circle (radius 50.00)                                                                       |               |              |          |            |            |               |              |                  |                   |  |
| SJ 30-6 #14N Vert Pt                                                                          | 0.00          | 0.00         | 3,352.00 | 1,063.10   | -14.60     | 2,101,067.929 | 136,134.652  | 36° 46' 4.129 N  | 107° 29' 32.190 W |  |
| - survey misses target center by 5.72ft at 3563.54ft MD (3351.76 TVD, 1063.73 N, -20.28 E)    |               |              |          |            |            |               |              |                  |                   |  |
| - Point                                                                                       |               |              |          |            |            |               |              |                  |                   |  |
| San Juan 30-6 #493                                                                            | 0.00          | 0.00         | 3,326.00 | 11.00      | 64.00      | 2,100,014.898 | 136,199.591  | 36° 45' 53.727 N | 107° 29' 31.225 W |  |
| - survey misses target center by 1047.06ft at 3413.02ft MD (3202.18 TVD, 1047.63 N, -16.05 E) |               |              |          |            |            |               |              |                  |                   |  |
| - Circle (radius 50.00)                                                                       |               |              |          |            |            |               |              |                  |                   |  |

| Survey Annotations  |                     |                   |            |                                                                         |  |
|---------------------|---------------------|-------------------|------------|-------------------------------------------------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                                                                 |  |
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                                                                         |  |
| 4,081.00            | 3,868.13            | 1,089.05          | -40.29     | BHL-4081.00' MD, 2.64° INC, 313.37° AZI, 3868.13' TVD, 1089.80' VS, 108 |  |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|