

DISTRICT I  
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II  
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, N.M. 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

# OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

Form C-102

Revised July 16, 2010

Submit one copy to appropriate  
District Office

AS DRILLED PLAT

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                |                                                             |                                                      |
|------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------|
| <sup>1</sup> API Number<br><b>30-039-30672</b> | <sup>2</sup> Pool Code                                      | <sup>3</sup> Pool Name<br><b>DAKOTA / MESA VERDE</b> |
| <sup>4</sup> Property Code<br><b>31325</b>     | <sup>5</sup> Property Name<br><b>SAN JUAN 29-5 UNIT</b>     | <sup>6</sup> Well Number<br><b>90N</b>               |
| <sup>7</sup> GRID No.<br><b>217817</b>         | <sup>8</sup> Operator Name<br><b>CONOCOPHILLIPS COMPANY</b> | <sup>9</sup> Elevation<br><b>7462</b>                |

### <sup>10</sup> Surface Location

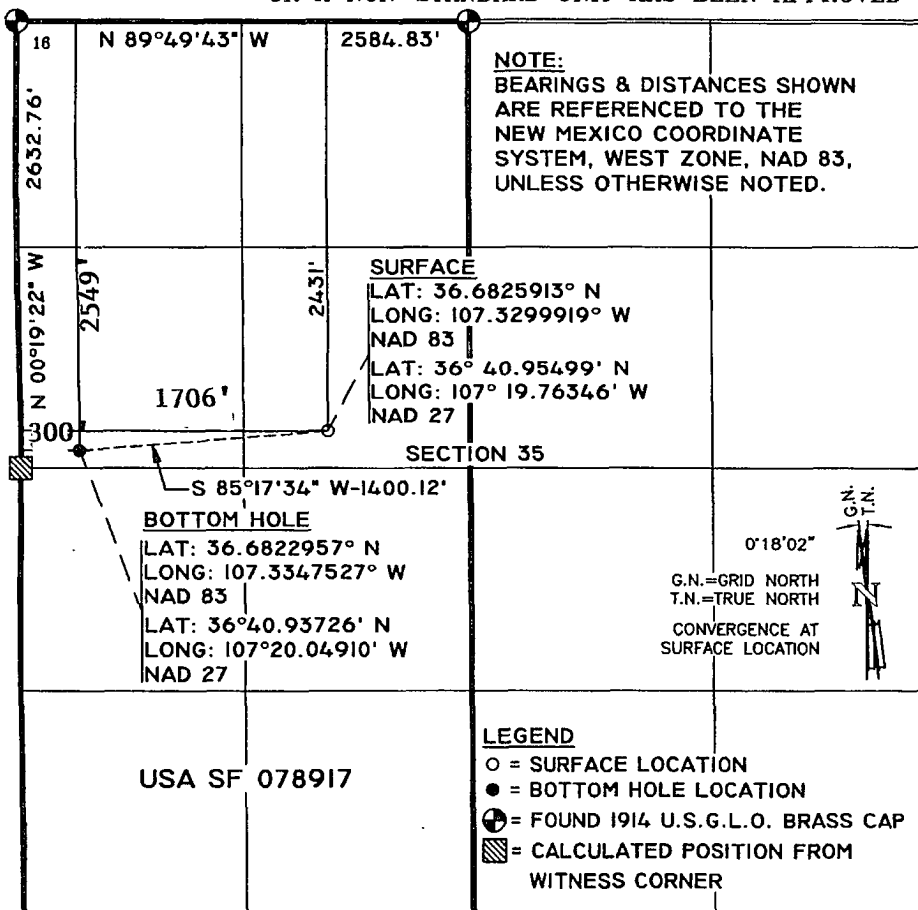
| UL or lot no. | Section   | Township    | Range      | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County            |
|---------------|-----------|-------------|------------|---------|---------------|------------------|---------------|----------------|-------------------|
| <b>F</b>      | <b>35</b> | <b>29 N</b> | <b>5 W</b> |         | <b>2431</b>   | <b>NORTH</b>     | <b>1706</b>   | <b>WEST</b>    | <b>RIO ARRIBA</b> |

### <sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section   | Township    | Range      | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County            |
|---------------|-----------|-------------|------------|---------|---------------|------------------|---------------|----------------|-------------------|
| <b>E</b>      | <b>35</b> | <b>29 N</b> | <b>5 W</b> |         | <b>2549'</b>  | <b>NORTH</b>     | <b>300'</b>   | <b>WEST</b>    | <b>RIO ARRIBA</b> |

|                                                   |                               |                                  |                         |
|---------------------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br><b>320 (W/2)</b> | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|---------------------------------------------------|-------------------------------|----------------------------------|-------------------------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



### <sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature \_\_\_\_\_ Date \_\_\_\_\_  
Marie E. Jaramillo 11/17/11  
Printed Name  
Regulatory Tech.  
E-mail Address \_\_\_\_\_

### <sup>18</sup> SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

4/07/08  
Date of Survey  
Signature and Seal of Professional Surveyor:  
MARSHALL W. LINDEEN  
NEW MEXICO  
17078  
PROFESSIONAL SURVEYOR  
17078  
Certificate Number

# COP Deviation Report

## SAN JUAN 29-5 UNIT #90N

|                                           |                                           |                         |                           |                              |
|-------------------------------------------|-------------------------------------------|-------------------------|---------------------------|------------------------------|
| Operator<br>CONOCOPHILLIPS COMPANY        | Legal WellName<br>SAN JUAN 29-5 UNIT #90N | API / UWI<br>3003930672 | County<br>RIO ARRIBA      | State/Province<br>NEW MEXICO |
| Surface Legal Location<br>035-029N-005W-F | N/S Dist (ft)<br>2,431.00                 | N/S Ref<br>FNL          | E/W Dist (ft)<br>1,706.00 | E/W Ref<br>FWL               |

| Survey Data |           |          |            |                     |
|-------------|-----------|----------|------------|---------------------|
| Date        | MD (ftKB) | Incl (°) | Method     | Survey Company      |
| 8/11/2011   | 129.00    | 1.00     | Inc-Drop   | MO-TE DRILLING INC. |
| 8/11/2011   | 236.00    | 1.00     | Inc-Drop   | MO-TE DRILLING INC. |
| 10/14/2011  | 295.00    | 1.01     | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 419.00    | 1.18     | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 479.00    | 0.33     | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 541.00    | 2.40     | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 603.00    | 3.77     | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 663.00    | 4.82     | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 724.00    | 6.29     | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 787.00    | 7.62     | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 848.00    | 9.17     | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 909.00    | 10.42    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 974.00    | 12.33    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,069.00  | 14.28    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,132.00  | 14.90    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,196.00  | 14.83    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,260.00  | 14.26    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,323.00  | 14.43    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,386.00  | 16.09    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,450.00  | 17.51    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,514.00  | 18.79    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,577.00  | 19.93    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,641.00  | 21.18    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,704.00  | 22.23    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,768.00  | 23.58    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,831.00  | 23.62    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,895.00  | 24.04    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 1,958.00  | 24.35    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 2,022.00  | 24.72    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 2,085.00  | 25.58    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 2,149.00  | 26.42    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 2,213.00  | 26.57    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 2,276.00  | 26.39    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 2,340.00  | 26.73    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 2,403.00  | 26.08    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011  | 2,467.00  | 25.26    | IncAzi-MWD | Scientific Drilling |

I, the undersigned, certify that I acting in my capacity as \_\_\_\_\_ 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.

Subscribed and sworn to me this \_\_\_\_\_

Notary Public in and for San Juan County, New Mexico

My Commission expires \_\_\_\_\_

# COP Deviation Report

## SAN JUAN 29-5 UNIT #90N

### Survey Data

| Date       | MD (ftKB) | Incl (°) | Method     | Survey Company      |
|------------|-----------|----------|------------|---------------------|
| 10/15/2011 | 2,531.00  | 25 66    | IncAzi-MWD | Scientific Drilling |
| 10/15/2011 | 2,594.00  | 24 39    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 2,658.00  | 24 24    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 2,721.00  | 23.38    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 2,785.00  | 23.26    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 2,848.00  | 23.34    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 2,912.00  | 22.95    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 2,975.00  | 22.85    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,039.00  | 22.59    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,103.00  | 23.37    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,166.00  | 23.17    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,230.00  | 22 19    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,293.00  | 22 63    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,357.00  | 22 21    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,420.00  | 22.39    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,484.00  | 22 86    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,547.00  | 23.26    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,611.00  | 24 56    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,675.00  | 24 14    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,738.00  | 24 10    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,802.00  | 23 36    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,865.00  | 23.36    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,929.00  | 24.38    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 3,992.00  | 24.95    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 4,055.00  | 25 26    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 4,119.00  | 24 60    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 4,182.00  | 23 21    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 4,246.00  | 19.87    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 4,310.00  | 17.35    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 4,373.00  | 16.10    | IncAzi-MWD | Scientific Drilling |
| 10/16/2011 | 4,437.00  | 13.12    | IncAzi-MWD | Scientific Drilling |
| 10/17/2011 | 4,500.00  | 11 86    | IncAzi-MWD | Scientific Drilling |
| 10/17/2011 | 4,564.00  | 9.76     | IncAzi-MWD | Scientific Drilling |
| 10/17/2011 | 4,627.00  | 8 04     | IncAzi-MWD | Scientific Drilling |
| 10/17/2011 | 4,691.00  | 6.63     | IncAzi-MWD | Scientific Drilling |
| 10/17/2011 | 4,754.00  | 5 71     | IncAzi-MWD | Scientific Drilling |
| 10/17/2011 | 4,818.00  | 4.84     | IncAzi-MWD | Scientific Drilling |
| 10/17/2011 | 4,882.00  | 4 11     | IncAzi-MWD | Scientific Drilling |
| 10/17/2011 | 4,934.00  | 4.02     | IncAzi-MWD | Scientific Drilling |

I, the undersigned, certify that I acting in my capacity as \_\_\_\_\_ 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.

Subscribed and sworn to me this \_\_\_\_\_

Notary Public in and for San Juan County, New Mexico

My Commission expires \_\_\_\_\_

**Survey Data**

| Date       | MD (ftKB) | Incl (°) | Method | Survey Company       |
|------------|-----------|----------|--------|----------------------|
| 11/15/2011 | 9,065.00  | 1.00     | Inc-WL | Phoenix Services LLC |

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.

[Signature]

Subscribed and sworn to me this 11/18/11

[Signature]

Notary Public in and for San Juan County, New Mexico

My Commission expires 7/29/14



**Scientific Drilling**

## **ConocoPhillips**

**SJB (NM Central)  
SEC 35-T29N-R5W  
SJ 29-5 #90N  
API# 30-039-30672  
Original Hole**

**Design: Original Hole**

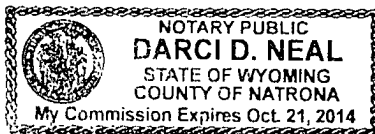
## **Standard Survey Report**

**28 October, 2011**

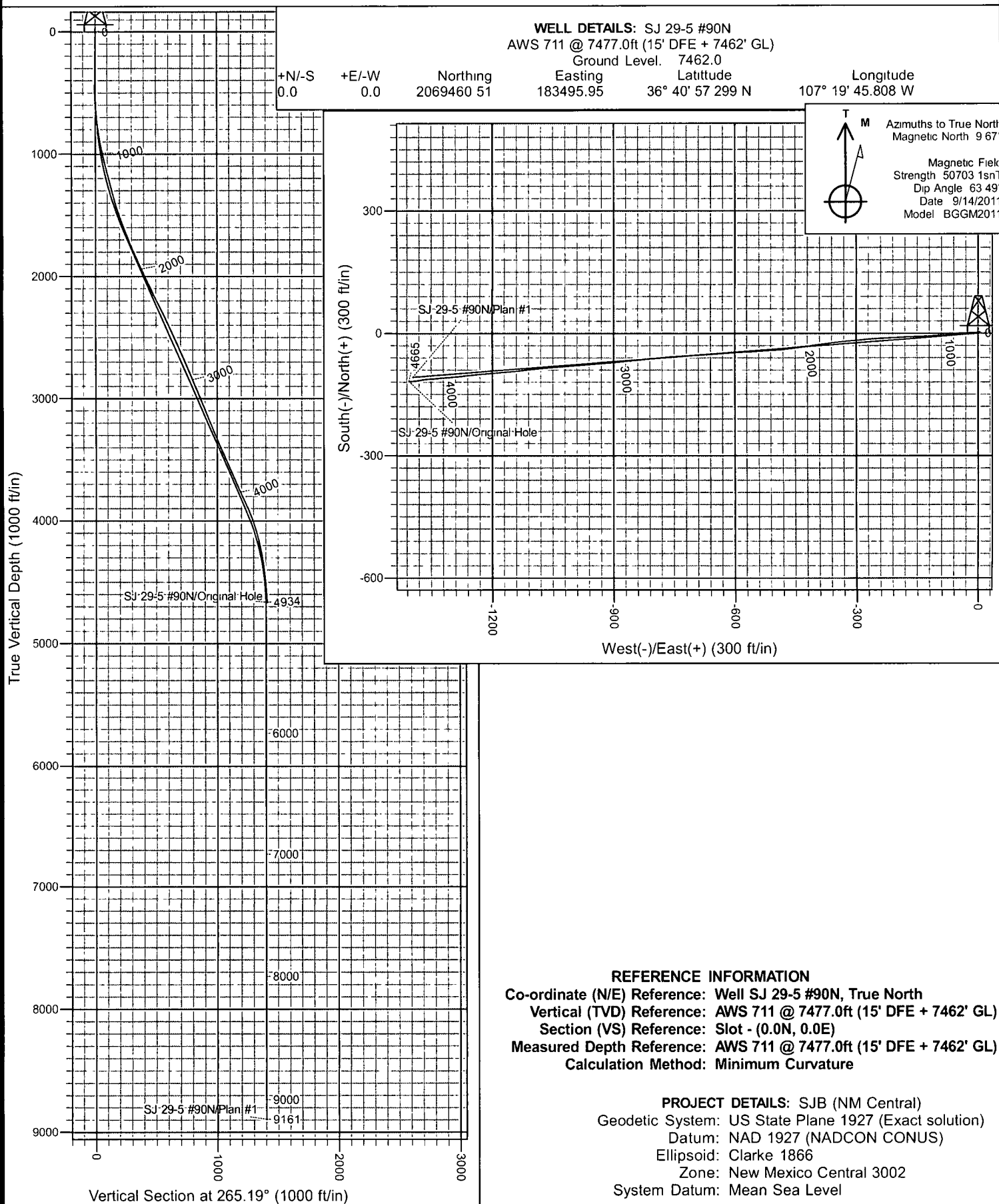
This survey is correct to the best of my knowledge and is supported by actual field data.

Notarized this date 28<sup>th</sup> of October, 2011.

Notary Signature  
County of Natrona  
State of Wyoming



# **ConocoPhillips**



|                  |                  |                                     |                                         |
|------------------|------------------|-------------------------------------|-----------------------------------------|
| <b>Company:</b>  | ConocoPhillips   | <b>Local Co-ordinate Reference:</b> | Well SJ 29-5 #90N                       |
| <b>Project:</b>  | SJB (NM Central) | <b>TVD Reference:</b>               | AWS 711 @ 7477.0ft (15' DFE + 7462' GL) |
| <b>Site:</b>     | SEC 35-T29N-R5W  | <b>MD Reference:</b>                | AWS 711 @ 7477.0ft (15' DFE + 7462' GL) |
| <b>Well:</b>     | SJ 29-5 #90N     | <b>North Reference:</b>             | True                                    |
| <b>Wellbore:</b> | Original Hole    | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | Original Hole    | <b>Database:</b>                    | EDMCOP                                  |

|                    |                                                  |                      |                             |
|--------------------|--------------------------------------------------|----------------------|-----------------------------|
| <b>Project</b>     | SJB (NM Central), New Mexico, S-Type MV/DK Wells |                      |                             |
| <b>Map System:</b> | US State Plane 1927 (Exact solution)             | <b>System Datum:</b> | Mean Sea Level              |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)                          |                      | Using Well Reference Point  |
| <b>Map Zone:</b>   | New Mexico Central 3002                          |                      | Using geodetic scale factor |

|                       |  |                 |  |                   |  |
|-----------------------|--|-----------------|--|-------------------|--|
| Site                  |  | SEC 35-T29N-R5W |  |                   |  |
| Site Position:        |  | Northing:       |  | 2,069,460.51 ft   |  |
| From:                 |  | Easting:        |  | 183,495.95 ft     |  |
| Position Uncertainty: |  | Slot Radius:    |  | Grid Convergence: |  |
| Lat/Long              |  | 15.0 ft         |  | 6-1/8"            |  |
|                       |  |                 |  | -0.64 °           |  |
|                       |  |                 |  | 36° 40' 57.299 N  |  |
|                       |  |                 |  | 107° 19' 45.808 W |  |

|                      |                                 |        |                     |                 |               |                   |
|----------------------|---------------------------------|--------|---------------------|-----------------|---------------|-------------------|
| Well:                | SJ 29-5 #90N, S-Type MV/DK Well |        |                     |                 |               |                   |
| Well Position        | +N/-S                           | 0.0 ft | Northing:           | 2,069,460.51 ft | Latitude:     | 36° 40' 57.299 N  |
|                      | +E/-W                           | 0.0 ft | Easting:            | 183,495.95 ft   | Longitude:    | 107° 19' 45.808 W |
| Position Uncertainty |                                 | 3.5 ft | Wellhead Elevation: | ft              | Ground Level: | 7,462.0 ft        |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Original Hole     |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | BGGM2011          | 9/14/2011          | 9.67                   | 63.49                | 50,703                     |

|                   |                          |               |               |                   |
|-------------------|--------------------------|---------------|---------------|-------------------|
| Design            | Original Hole            |               |               |                   |
| Audit Notes:      |                          |               |               |                   |
| Version:          | 1.0                      | Phase:        | ACTUAL        | Tie On Depth: 0 0 |
| Vertical Section: | Depth From (TVD)<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Direction<br>(°)  |
|                   | 0.0                      | 0.0           | 0.0           | 265.19            |

|                       |                |                           |                  |                          |  |
|-----------------------|----------------|---------------------------|------------------|--------------------------|--|
| <b>Survey Program</b> | <b>Date</b>    | 10/28/2011                |                  |                          |  |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b>  | <b>Tool Name</b> | <b>Description</b>       |  |
| 295.0                 | 4,934.0        | Survey #1 (Original Hole) | MWD SDI          | MWD - Standard ver 1.0.1 |  |

|                             |                        |                    |                            |                   |                   |                              |                              |                             |                            |  |
|-----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|----------------------------|--|
| <b>Survey</b>               |                        |                    |                            |                   |                   |                              |                              |                             |                            |  |
| <b>Measured Depth (ft)</b>  | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Vertical Section (ft)</b> | <b>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> |  |
| 0.0                         | 0.00                   | 0.00               | 0.0                        | 0.0               | 0.0               | 0.0                          | 0.00                         | 0.00                        | 0.00                       |  |
| 295.0                       | 1.01                   | 59.44              | 295.0                      | 1.3               | 2.2               | -2.3                         | 0.34                         | 0.34                        | 0.00                       |  |
| <b>First SDI MWD Survey</b> |                        |                    |                            |                   |                   |                              |                              |                             |                            |  |
| 419.0                       | 1.18                   | 64.76              | 419.0                      | 2.4               | 4.3               | -4.5                         | 0.16                         | 0.14                        | 4.29                       |  |
| 479.0                       | 0.33                   | 14.66              | 479.0                      | 2.9               | 4.9               | -5.2                         | 1.67                         | -1.42                       | -83.50                     |  |
| 493.0                       | 0.49                   | 287.98             | 493.0                      | 2.9               | 4.9               | -5.1                         | 4.12                         | 1.16                        | -619.15                    |  |
| <b>Last SDI MWD Survey</b>  |                        |                    |                            |                   |                   |                              |                              |                             |                            |  |
| 541.0                       | 2.40                   | 259.90             | 540.9                      | 2.8               | 3.7               | -3.9                         | 4.12                         | 3.97                        | -58.50                     |  |
| 603.0                       | 3.77                   | 258.11             | 602.8                      | 2.2               | 0.4               | -0.6                         | 2.21                         | 2.21                        | -2.89                      |  |
| 663.0                       | 4.82                   | 266.92             | 662.7                      | 1.6               | -4.0              | 3.9                          | 2.06                         | 1.75                        | 14.68                      |  |
| 724.0                       | 6.29                   | 271.16             | 723.4                      | 1.5               | -9.9              | 9.8                          | 2.50                         | 2.41                        | 6.95                       |  |
| 787.0                       | 7.62                   | 269.43             | 785.9                      | 1.6               | -17.5             | 17.4                         | 2.14                         | 2.11                        | -2.75                      |  |
| 848.0                       | 9.17                   | 267.38             | 846.3                      | 1.3               | -26.4             | 26.2                         | 2.59                         | 2.54                        | -3.36                      |  |

|                  |                  |                                     |                                         |
|------------------|------------------|-------------------------------------|-----------------------------------------|
| <b>Company:</b>  | ConocoPhillips   | <b>Local Co-ordinate Reference:</b> | Well SJ 29-5 #90N                       |
| <b>Project:</b>  | SJB (NM Central) | <b>TVD Reference:</b>               | AWS 711 @ 7477.0ft (15' DFE + 7462' GL) |
| <b>Site:</b>     | SEC 35-T29N-R5W  | <b>MD Reference:</b>                | AWS 711 @ 7477.0ft (15' DFE + 7462' GL) |
| <b>Well:</b>     | SJ 29-5 #90N     | <b>North Reference:</b>             | True                                    |
| <b>Wellbore:</b> | Original Hole    | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | Original Hole    | <b>Database:</b>                    | EDMCOP                                  |

| 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) |
| 909.0               | 10.42           | 265.78      | 906.4               | 0.7        | -36.8      | 36.6                  | 2.10                  | 2.05                 | -2.62               |
| 974.0               | 12.33           | 266.20      | 970.1               | -0.2       | -49.6      | 49.4                  | 2.94                  | 2.94                 | 0.65                |
| 1,069.0             | 14.28           | 265.03      | 1,062.5             | -1.9       | -71.4      | 71.3                  | 2.07                  | 2.05                 | -1.23               |
| 1,132.0             | 14.90           | 264.76      | 1,123.5             | -3.3       | -87.2      | 87.2                  | 0.99                  | 0.98                 | -0.43               |
| 1,196.0             | 14.83           | 263.59      | 1,185.4             | -5.0       | -103.5     | 103.6                 | 0.48                  | -0.11                | -1.83               |
| 1,260.0             | 14.26           | 266.00      | 1,247.3             | -6.4       | -119.5     | 119.6                 | 1.30                  | -0.89                | 3.77                |
| 1,323.0             | 14.43           | 266.30      | 1,308.4             | -7.5       | -135.1     | 135.3                 | 0.29                  | 0.27                 | 0.48                |
| 1,386.0             | 16.09           | 269.04      | 1,369.1             | -8.1       | -151.7     | 151.8                 | 2.87                  | 2.63                 | 4.35                |
| 1,450.0             | 17.51           | 267.65      | 1,430.4             | -8.7       | -170.2     | 170.3                 | 2.31                  | 2.22                 | -2.17               |
| 1,514.0             | 18.79           | 266.55      | 1,491.2             | -9.7       | -190.1     | 190.2                 | 2.07                  | 2.00                 | -1.72               |
| 1,577.0             | 19.93           | 266.76      | 1,550.7             | -10.9      | -210.9     | 211.1                 | 1.81                  | 1.81                 | 0.33                |
| 1,641.0             | 21.18           | 267.76      | 1,610.6             | -12.0      | -233.4     | 233.5                 | 2.03                  | 1.95                 | 1.56                |
| 1,704.0             | 22.23           | 266.10      | 1,669.1             | -13.2      | -256.6     | 256.8                 | 1.93                  | 1.67                 | -2.63               |
| 1,768.0             | 23.58           | 265.02      | 1,728.1             | -15.2      | -281.5     | 281.7                 | 2.21                  | 2.11                 | -1.69               |
| 1,831.0             | 23.62           | 264.64      | 1,785.8             | -17.5      | -306.6     | 307.0                 | 0.25                  | 0.06                 | -0.60               |
| 1,895.0             | 24.04           | 264.51      | 1,844.3             | -19.9      | -332.3     | 332.8                 | 0.66                  | 0.66                 | -0.20               |
| 1,958.0             | 24.35           | 262.36      | 1,901.8             | -22.9      | -358.0     | 358.6                 | 1.48                  | 0.49                 | -3.41               |
| 2,022.0             | 24.72           | 262.17      | 1,960.0             | -26.4      | -384.3     | 385.2                 | 0.59                  | 0.58                 | -0.30               |
| 2,085.0             | 25.58           | 261.84      | 2,017.1             | -30.2      | -410.8     | 411.9                 | 1.38                  | 1.37                 | -0.52               |
| 2,149.0             | 26.42           | 262.32      | 2,074.6             | -34.0      | -438.6     | 439.9                 | 1.35                  | 1.31                 | 0.75                |
| 2,213.0             | 26.57           | 262.43      | 2,131.9             | -37.8      | -466.9     | 468.4                 | 0.25                  | 0.23                 | 0.17                |
| 2,276.0             | 26.39           | 265.80      | 2,188.2             | -40.7      | -494.8     | 496.5                 | 2.40                  | -0.29                | 5.35                |
| 2,340.0             | 26.73           | 266.39      | 2,245.5             | -42.6      | -523.4     | 525.1                 | 0.67                  | 0.53                 | 0.92                |
| 2,403.0             | 26.08           | 265.97      | 2,301.9             | -44.5      | -551.3     | 553.1                 | 1.07                  | -1.03                | -0.67               |
| 2,467.0             | 25.26           | 267.53      | 2,359.6             | -46.1      | -579.0     | 580.8                 | 1.66                  | -1.28                | 2.44                |
| 2,531.0             | 25.66           | 266.11      | 2,417.4             | -47.6      | -606.5     | 608.3                 | 1.14                  | 0.63                 | -2.22               |
| 2,594.0             | 24.39           | 265.98      | 2,474.5             | -49.4      | -633.1     | 635.0                 | 2.02                  | -2.02                | -0.21               |
| 2,658.0             | 24.24           | 265.37      | 2,532.8             | -51.4      | -659.3     | 661.3                 | 0.46                  | -0.23                | -0.95               |
| 2,721.0             | 23.38           | 266.40      | 2,590.4             | -53.3      | -684.7     | 686.8                 | 1.52                  | -1.37                | 1.63                |
| 2,785.0             | 23.26           | 266.23      | 2,649.2             | -54.9      | -710.0     | 712.1                 | 0.21                  | -0.19                | -0.27               |
| 2,848.0             | 23.34           | 266.66      | 2,707.1             | -56.4      | -734.9     | 737.0                 | 0.30                  | 0.13                 | 0.68                |
| 2,912.0             | 22.95           | 265.42      | 2,765.9             | -58.2      | -760.0     | 762.2                 | 0.98                  | -0.61                | -1.94               |
| 2,975.0             | 22.85           | 265.27      | 2,824.0             | -60.2      | -784.4     | 786.7                 | 0.18                  | -0.16                | -0.24               |
| 3,039.0             | 22.59           | 264.52      | 2,883.0             | -62.4      | -809.0     | 811.4                 | 0.61                  | -0.41                | -1.17               |
| 3,103.0             | 23.37           | 265.12      | 2,941.9             | -64.6      | -833.9     | 836.4                 | 1.27                  | 1.22                 | 0.94                |
| 3,166.0             | 23.17           | 264.02      | 2,999.8             | -67.0      | -858.7     | 861.3                 | 0.76                  | -0.32                | -1.75               |
| 3,230.0             | 22.19           | 263.41      | 3,058.8             | -69.7      | -883.2     | 885.9                 | 1.57                  | -1.53                | -0.95               |
| 3,293.0             | 22.63           | 265.29      | 3,117.1             | -72.0      | -907.1     | 909.9                 | 1.33                  | 0.70                 | 2.98                |
| 3,357.0             | 22.21           | 265.09      | 3,176.2             | -74.1      | -931.4     | 934.3                 | 0.67                  | -0.66                | -0.31               |
| 3,420.0             | 22.39           | 265.10      | 3,234.5             | -76.1      | -955.2     | 958.3                 | 0.29                  | 0.29                 | 0.02                |
| 3,484.0             | 22.86           | 266.09      | 3,293.6             | -78.0      | -979.8     | 982.9                 | 0.95                  | 0.73                 | 1.55                |
| 3,547.0             | 23.26           | 265.70      | 3,351.6             | -79.8      | -1,004.4   | 1,007.5               | 0.68                  | 0.63                 | -0.62               |
| 3,611.0             | 24.56           | 265.60      | 3,410.1             | -81.7      | -1,030.3   | 1,033.5               | 2.03                  | 2.03                 | -0.16               |
| 3,675.0             | 24.14           | 264.86      | 3,468.4             | -83.9      | -1,056.6   | 1,059.9               | 0.81                  | -0.66                | -1.16               |
| 3,738.0             | 24.10           | 264.12      | 3,525.9             | -86.4      | -1,082.2   | 1,085.6               | 0.48                  | -0.06                | -1.17               |
| 3,802.0             | 23.36           | 263.65      | 3,584.5             | -89.1      | -1,107.8   | 1,111.4               | 1.19                  | -1.16                | -0.73               |
| 3,865.0             | 23.36           | 263.65      | 3,642.3             | -91.9      | -1,132.6   | 1,136.3               | 0.00                  | 0.00                 | 0.00                |
| 3,929.0             | 24.38           | 265.36      | 3,700.8             | -94.4      | -1,158.4   | 1,162.2               | 1.93                  | 1.59                 | 2.67                |
| 3,992.0             | 24.95           | 265.44      | 3,758.1             | -96.5      | -1,184.6   | 1,188.5               | 0.91                  | 0.90                 | 0.13                |
| 4,055.0             | 25.26           | 264.82      | 3,815.1             | -98.8      | -1,211.2   | 1,215.2               | 0.65                  | 0.49                 | -0.98               |
| 4,119.0             | 24.60           | 264.09      | 3,873.2             | -101.4     | -1,238.1   | 1,242.2               | 1.14                  | -1.03                | -1.14               |
| 4,182.0             | 23.21           | 264.33      | 3,930.8             | -103.9     | -1,263.5   | 1,267.7               | 2.21                  | -2.21                | 0.38                |
| 4,246.0             | 19.87           | 263.56      | 3,990.3             | -106.4     | -1,286.8   | 1,291.2               | 5.24                  | -5.22                | -1.20               |
| 4,310.0             | 17.35           | 265.61      | 4,050.9             | -108.4     | -1,307.2   | 1,311.7               | 4.07                  | -3.94                | 3.20                |

|                  |                  |                                     |                                         |
|------------------|------------------|-------------------------------------|-----------------------------------------|
| <b>Company:</b>  | ConocoPhillips   | <b>Local Co-ordinate Reference:</b> | Well SJ 29-5 #90N                       |
| <b>Project:</b>  | SJB (NM Central) | <b>TVD Reference:</b>               | AWS 711 @ 7477.0ft (15' DFE + 7462' GL) |
| <b>Site:</b>     | SEC 35-T29N-R5W  | <b>MD Reference:</b>                | AWS 711 @ 7477.0ft (15' DFE + 7462' GL) |
| <b>Well:</b>     | SJ 29-5 #90N     | <b>North Reference:</b>             | True                                    |
| <b>Wellbore:</b> | Original Hole    | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | Original Hole    | <b>Database:</b>                    | EDMCOP                                  |

| 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) |
| 4,373.0             | 16.10           | 265.48      | 4,111.3             | -109.8     | -1,325.2   | 1,329.8               | 1.99                  | -1.98                | -0.21               |
| 4,437.0             | 13.12           | 265.32      | 4,173.2             | -111.1     | -1,341.3   | 1,345.9               | 4.66                  | -4.66                | -0.25               |
| 4,500.0             | 11.86           | 265.50      | 4,234.7             | -112.2     | -1,354.9   | 1,359.5               | 2.00                  | -2.00                | 0.29                |
| 4,564.0             | 9.76            | 262.60      | 4,297.6             | -113.4     | -1,366.9   | 1,371.5               | 3.39                  | -3.28                | -4.53               |
| 4,627.0             | 8.04            | 259.92      | 4,359.8             | -114.8     | -1,376.5   | 1,381.3               | 2.81                  | -2.73                | -4.25               |
| 4,691.0             | 6.63            | 261.42      | 4,423.3             | -116.2     | -1,384.5   | 1,389.4               | 2.22                  | -2.20                | 2.34                |
| 4,764.0             | 5.71            | 265.06      | 4,495.9             | -117.1     | -1,392.3   | 1,397.2               | 1.37                  | -1.26                | 4.99                |
| 4,786.0             | 5.49            | 263.26      | 4,517.7             | -117.3     | -1,394.5   | 1,399.4               | 1.28                  | -1.00                | -8.18               |
| 4,818.0             | 4.84            | 264.00      | 4,549.6             | -117.6     | -1,397.3   | 1,402.3               | 2.04                  | -2.03                | 2.31                |
| 4,882.0             | 4.11            | 265.81      | 4,613.4             | -118.1     | -1,402.3   | 1,407.3               | 1.16                  | -1.14                | 2.83                |
| 4,934.0             | 4.02            | 270.01      | 4,665.3             | -118.2     | -1,406.0   | 1,410.9               | 0.60                  | -0.17                | 8.08                |

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