

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

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

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

DISTRICT IV  
1220 South St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

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Fee Lease - 3 Copies

☐ AMENDED REPORT

"AS DRILLED PLAT"

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                |                                                |                                                     |
|------------------------------------------------|------------------------------------------------|-----------------------------------------------------|
| <sup>1</sup> API Number<br><b>30-039-30876</b> | <sup>2</sup> Pool Code<br><b>71599 / 72319</b> | Pool Name<br><b>BASIN DAKOTA / BLANCO MESAVERDE</b> |
| <sup>4</sup> Property Code<br><b>31535</b>     | <sup>3</sup> Property Name<br><b>FEDERAL</b>   | <sup>6</sup> Well Number<br><b>12N</b>              |
| <sup>7</sup> OGRID No.<br><b>217817</b>        | Operator Name<br><b>CONOCOPHILLIPS COMPANY</b> | Elevation<br><b>6731'</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     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| K             | 23      | 26-N     | 6-W   |         | 1885          | SOUTH            | 1490          | WEST           | RIO ARriba |

<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     |
|--------------------------------------------------|---------|-------------------------------|-------|----------------------------------|---------------|--------------------------------------------------|---------------|----------------|------------|
| K                                                | 23      | 26-N                          | 6-W   |                                  | <b>2521</b>   | SOUTH                                            | <b>1878</b>   | WEST           | RIO ARriba |
| <sup>12</sup> Dedicated Acres<br>W/2 - 320 ACRES |         | <sup>13</sup> Joint or Infill |       | <sup>14</sup> Consolidation Code |               | <sup>15</sup> Order No.<br><b>OIL CONS. DIV.</b> |               |                |            |

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

|                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>16</p> <p>USA SF-079296</p> <p>FD. 3 1/4" BC.<br/>1956 B.L.M.</p> <p>1878'</p> <p>USA SF-079295</p> <p>1490'</p> <p>N 00°03'35" E<br/>2679.70' (M)</p> <p>1885'</p> <p>2521'</p> <p>FD. 3 1/4" BC.<br/>1956 B.L.M.</p> <p>S 89°48'58" W<br/>2653.31' (C)</p> <p>WITNESS CORNER<br/>FD. 3 1/4" BC.<br/>1956 B.L.M.</p> <p>CALC'D. CORNER<br/>FROM W.C.<br/>S 89°48'58" W 46.78'</p> | <p>PRELIMINARY B.H.L.<br/>B.H.L. FOOTAGES ARE APPROXIMATE<br/>AND PROVIDED BY CONOCOPHILLIPS.<br/>CLIENT</p> <p>23</p> <p>SURFACE:<br/>LAT: 36.47028° N. (NAD 83)<br/>LONG: 107.44120° W. (NAD 83)<br/>LAT: 36°28.21597' N. (NAD 27)<br/>LONG: 107°26.43587' W. (NAD 27)</p> | <p>17 OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>Crystal Tafoya</i> 2/21/11<br/>Signature Date<br/><b>Crystal Tafoya</b> 2/21/2011<br/>Printed Name</p> <p>18 SURVEYOR CERTIFICATION</p> <p>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 knowledge and belief.</p> <p>MARCH 24, 2009<br/>Date of Survey<br/>Signature and Seal of Professional Surveyor<br/><i>Roy A. Rush</i><br/>REGISTERED PROFESSIONAL LAND SURVEYOR<br/>NEW MEXICO<br/>8894<br/>Certificate Number</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                         |                                      |
|-----------------------------------------|--------------------------------------|
| <b>Legal WellName :</b> FEDERAL #12N    | <b>API / UWI:</b> 3003930876         |
| <b>Operator:</b> CONOCOPHILLIPS COMPANY | <b>Surf Loc:</b> 023-026N-006W-K     |
| <b>St/Prov:</b> NEW MEXICO              | <b>N/S Dist (ft):</b> 1,885.00 - FSL |
| <b>County:</b> RIO ARRIBA               | <b>E/W Dist (ft):</b> 1,490.00 - FWL |

## Wellbore Name : Original Hole

| Description        | Date       | MD Tie In (ft) | Inclination Tie In (°) | Azimuth Tie In (°) |
|--------------------|------------|----------------|------------------------|--------------------|
| INCLINATION SURVEY | 08/06/2010 | .00            | .00                    | .00                |

| Date       | MD (ft) | Incl (°) | Azm (°) | Method   | Survey Company |
|------------|---------|----------|---------|----------|----------------|
| 08/06/2010 | 384.00  | 1.00     | .00     | Inc-Drop | H&P DRILLING   |

| Description | Date       | MD Tie In (ft) | Inclination Tie In (°) | Azimuth Tie In (°) |
|-------------|------------|----------------|------------------------|--------------------|
| MWD SURVEY  | 08/08/2010 | .00            | .00                    | .00                |

| Date       | MD (ft)  | Incl (°) | Azm (°) | Method     | Survey Company      |
|------------|----------|----------|---------|------------|---------------------|
| 08/08/2010 | 388.00   | .08      | 62.14   | IncAzi-MWD | Scientific Drilling |
| 08/08/2010 | 449.00   | .92      | 38.82   | IncAzi-MWD | Scientific Drilling |
| 08/08/2010 | 509.00   | 3.59     | 25.94   | IncAzi-MWD | Scientific Drilling |
| 08/08/2010 | 571.00   | 4.21     | 21.57   | IncAzi-MWD | Scientific Drilling |
| 08/08/2010 | 632.00   | 5.26     | 24.97   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 694.00   | 7.20     | 27.92   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 756.00   | 8.21     | 29.86   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 817.00   | 9.71     | 29.30   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 910.00   | 12.15    | 30.32   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 1,000.00 | 14.08    | 32.52   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 1,091.00 | 16.11    | 32.74   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 1,181.00 | 17.48    | 35.69   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 1,270.00 | 18.49    | 29.87   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 1,360.00 | 18.57    | 29.88   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 1,450.00 | 18.88    | 30.72   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 1,540.00 | 18.58    | 30.82   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 1,630.00 | 19.21    | 31.21   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 1,720.00 | 19.11    | 30.58   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 1,810.00 | 19.46    | 30.66   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 1,900.00 | 19.08    | 31.16   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 1,990.00 | 18.48    | 31.22   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 2,080.00 | 20.43    | 27.38   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 2,170.00 | 20.18    | 25.54   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 2,260.00 | 19.67    | 25.81   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 2,350.00 | 19.08    | 24.90   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 2,440.00 | 18.67    | 26.56   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 2,530.00 | 19.35    | 31.05   | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 2,620.00 | 19.90    | 31.79   | IncAzi-MWD | Scientific Drilling |

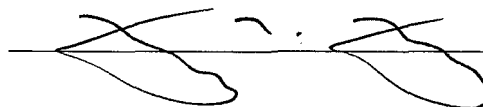
RCVD FEB 23 '11  
OIL CONS. DIV.  
DIST. 3

|            |          |       |        |            |                     |
|------------|----------|-------|--------|------------|---------------------|
| 08/09/2010 | 2,709.00 | 20.49 | 30.90  | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 2,799.00 | 19.66 | 30.95  | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 2,889.00 | 16.23 | 26.59  | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 2,979.00 | 12.22 | 29.45  | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 3,069.00 | 8.31  | 26.68  | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 3,159.00 | 6.62  | 20.36  | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 3,249.00 | 4.94  | 33.59  | IncAzi-MWD | Scientific Drilling |
| 08/09/2010 | 3,339.00 | 2.56  | 47.80  | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 3,429.00 | 1.08  | 182.86 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 3,518.00 | 1.20  | 178.82 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 3,608.00 | 1.29  | 129.22 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 3,698.00 | 1.25  | 135.99 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 3,788.00 | .91   | 128.98 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 3,878.00 | 1.10  | 88.67  | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 3,968.00 | 1.19  | 87.57  | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 4,058.00 | 1.02  | 106.30 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 4,148.00 | .78   | 121.84 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 4,238.00 | .68   | 120.99 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 4,328.00 | .95   | 131.51 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 4,418.00 | .92   | 142.01 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 4,508.00 | .94   | 141.24 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 4,598.00 | .93   | 148.55 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 4,688.00 | .60   | 147.69 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 4,778.00 | .65   | 140.85 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 4,868.00 | .49   | 175.27 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 4,958.00 | .58   | 170.45 | IncAzi-MWD | Scientific Drilling |
| 08/10/2010 | 5,003.00 | .62   | 192.83 | IncAzi-MWD | Scientific Drilling |

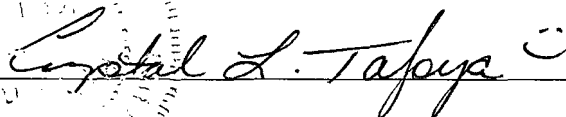
| Description     | Date       | MD Tie In (ft) | Inclination Tie In (°) | Azimuth Tie In (°) |
|-----------------|------------|----------------|------------------------|--------------------|
| FINAL BH SURVEY | 08/19/2010 | .00            | .00                    | .00                |

| Date       | MD (ft)  | Incl (°) | Azm (°) | Method | Survey Company |
|------------|----------|----------|---------|--------|----------------|
| 08/19/2010 | 7,697.00 | 1.00     | .00     | 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.



Subscribed and sworn to me this February 21, 2011



Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2014

# ConocoPhillips

SAN JUAN BASIN

SEC 23-T26N-R6W

Federal #12N

Original Hole

API # 30-039-30876

Survey: Actual



## SDI Standard Survey Report

25 August, 2010

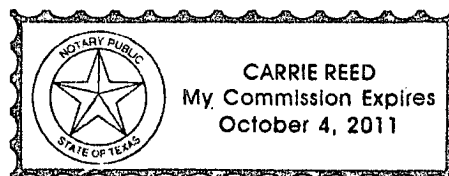
This survey is correct to the best of my knowledge and is supported by actual field data.

Robert

Notorized this date 25th of August, 2010.

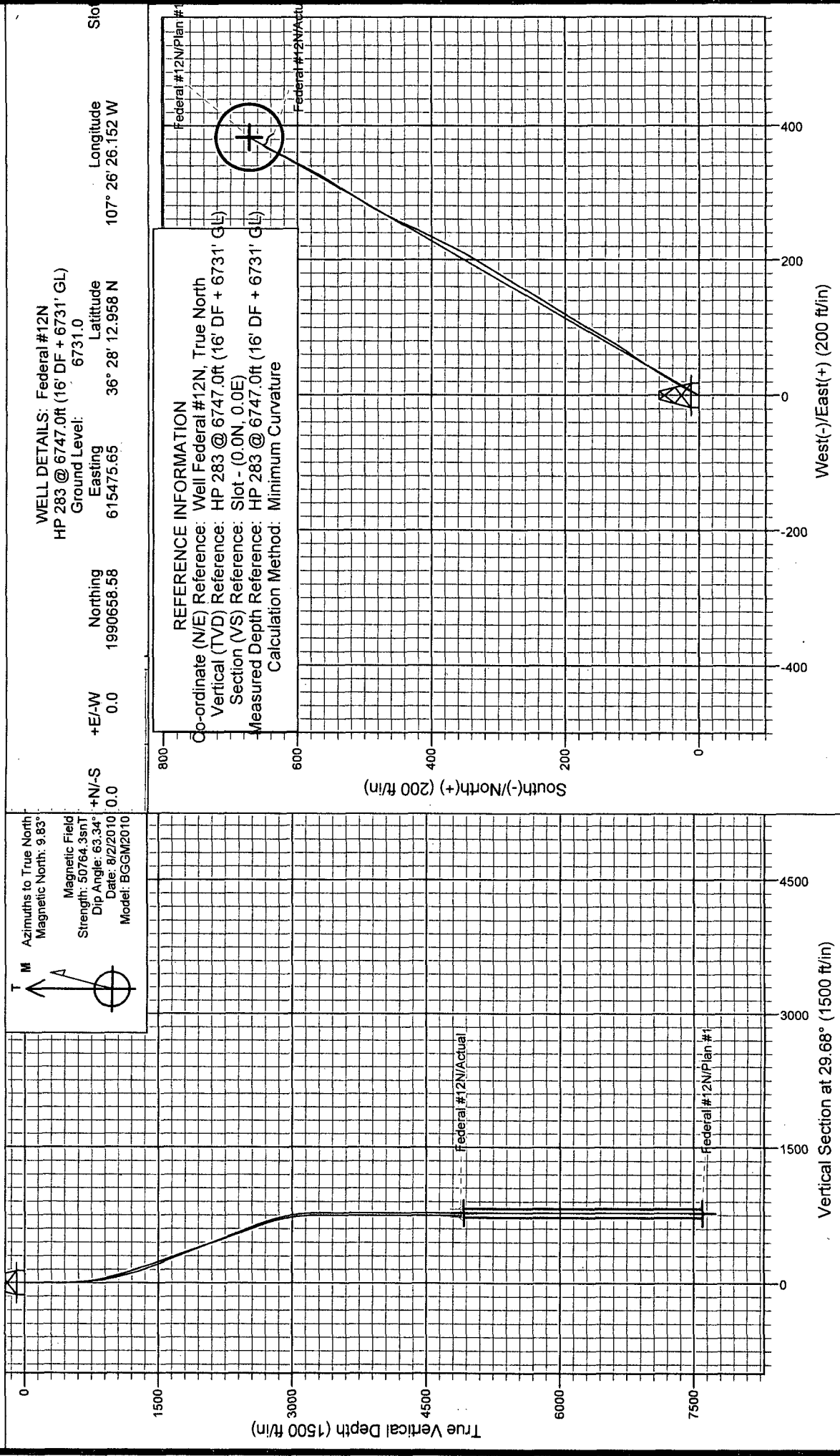
Carrie Reed

Notary Signature  
County of Midland  
State of Texas





Project: SAN JUAN BASIN  
Site: SEC 23-T26N-R6W  
Well: Federal #12N  
Wellbore: Original Hole  
Design: Plan #1



**COMPANY DETAILS:** ConocoPhillips  
**Calculation Method:** Minimum Curvature  
**Error System:** ISCWSA  
**Scan Method:** Closest Approach 3D  
**Error Surface:** Combined Covariances  
**Warning Method:** Risk Ratio

**PROJECT DETAILS:** SAN JUAN BASIN  
**Geodetic System:** US State Plane 1927 (Exact solution)  
**Datum:** NAD 1927 (NADCON CONUS)  
**Ellipsoid:** Clarke 1866  
**Zone:** New Mexico West 3003  
**System Datum:** Mean Sea Level

**SITE DETAILS:** SEC 23-T26N-R6W  
**Site Centre Latitude:** 36° 28' 12.972 N  
**Longitude:** 107° 26' 26.149 W  
**Positional Uncertainty:** 0.0  
**Convergence:** 0.23  
**Local North:** True

# Scientific Drilling International, Inc.

## SDI Standard Survey Report

|                  |                 |                                     |                                       |
|------------------|-----------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | ConocoPhillips  | <b>Local Co-ordinate Reference:</b> | Well Federal #12N                     |
| <b>Project:</b>  | SAN JUAN BASIN  | <b>TVD Reference:</b>               | HP 283 @ 6747.0ft (16' DF + 6731' GL) |
| <b>Site:</b>     | SEC 23-T26N-R6W | <b>MD Reference:</b>                | HP 283 @ 6747.0ft (16' DF + 6731' GL) |
| <b>Well:</b>     | Federal #12N    | <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>     | SAN JUAN BASIN, NEW MEXICO           |                      |                             |
| <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 West 3003                 |                      | Using geodetic scale factor |

|                              |                 |                          |                   |
|------------------------------|-----------------|--------------------------|-------------------|
| <b>Site</b>                  | SEC 23-T26N-R6W |                          |                   |
| <b>Site Position:</b>        |                 | <b>Northing:</b>         | 1,990,659.98 ft   |
| <b>From:</b>                 | Lat/Long        | <b>Easting:</b>          | 615,475.89 ft     |
| <b>Position Uncertainty:</b> | 0.0 ft          | <b>Slot Radius:</b>      | "                 |
|                              |                 | <b>Latitude:</b>         | 36° 28' 12.972 N  |
|                              |                 | <b>Longitude:</b>        | 107° 26' 26.149 W |
|                              |                 | <b>Grid Convergence:</b> | 0.23 °            |

|                             |              |                            |                   |
|-----------------------------|--------------|----------------------------|-------------------|
| <b>Well</b>                 | Federal #12N |                            |                   |
| <b>Well Position</b>        | +N/-S        | 0.0 ft                     | <b>Northing:</b>  |
|                             | +E/-W        | 0.0 ft                     | <b>Easting:</b>   |
| <b>Position Uncertainty</b> | 0.0 ft       | <b>Wellhead Elevation:</b> | ft                |
|                             |              | <b>Latitude:</b>           | 36° 28' 12.958 N  |
|                             |              | <b>Longitude:</b>          | 107° 26' 26.152 W |
|                             |              | <b>Ground Level:</b>       | 6,731.0 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</b> |
|                  |                   |                    | (°)                | (°)              | (nT)                  |
|                  | BGGM2010          | 8/2/2010           | 9.83               | 63.34            | 50,764                |

|                          |                         |               |              |                      |
|--------------------------|-------------------------|---------------|--------------|----------------------|
| <b>Design</b>            | Original Hole           |               |              |                      |
| <b>Audit Notes:</b>      |                         |               |              |                      |
| <b>Version:</b>          | 1.0                     | <b>Phase:</b> | ACTUAL       | <b>Tie On Depth:</b> |
|                          |                         |               |              | 0.0                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b>  | <b>+E/-W</b> | <b>Direction</b>     |
|                          | (ft)                    | (ft)          | (ft)         | (°)                  |
|                          | 0.0                     | 0.0           | 0.0          | 31.40                |

|                       |                |                          |                  |                          |
|-----------------------|----------------|--------------------------|------------------|--------------------------|
| <b>Survey Program</b> | Date 8/25/2010 |                          |                  |                          |
| <b>From</b>           | <b>To</b>      | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b>       |
| (ft)                  | (ft)           |                          |                  |                          |
| 388.0                 | 5,003.0        | Actual (Original Hole)   | MWD SDI          | MWD - Standard ver 1.0.1 |

|                       |                    |                |                      |                    |                  |                        |                         |  |  |  |
|-----------------------|--------------------|----------------|----------------------|--------------------|------------------|------------------------|-------------------------|--|--|--|
| <b>Survey</b>         |                    |                |                      |                    |                  |                        |                         |  |  |  |
| <b>Measured Depth</b> | <b>Inclination</b> | <b>Azimuth</b> | <b>True Vertical</b> | <b>North/South</b> | <b>East/West</b> | <b>Closure Azimuth</b> | <b>Closure Distance</b> |  |  |  |
| (ft)                  | (°)                | (°)            | Depth                | (ft)               | (ft)             | (°)                    | (ft)                    |  |  |  |
| 0.0                   | 0.00               | 0.00           | 0.0                  | 0.0                | 0.0              | 0.00                   | 0.0                     |  |  |  |
| 388.0                 | 0.08               | 62.14          | 388.0                | 0.1                | 0.2              | 62.14                  | 0.3                     |  |  |  |
| 449.0                 | 0.92               | 38.82          | 449.0                | 0.5                | 0.6              | 47.89                  | 0.8                     |  |  |  |
| 509.0                 | 3.59               | 25.94          | 508.9                | 2.6                | 1.7              | 33.37                  | 3.1                     |  |  |  |
| 571.0                 | 4.21               | 21.57          | 570.8                | 6.5                | 3.4              | 27.73                  | 7.3                     |  |  |  |
| 632.0                 | 5.26               | 24.97          | 631.6                | 11.1               | 5.4              | 25.99                  | 12.3                    |  |  |  |
| 694.0                 | 7.20               | 27.92          | 693.2                | 17.1               | 8.4              | 26.23                  | 19.0                    |  |  |  |
| 756.0                 | 8.21               | 29.86          | 754.7                | 24.4               | 12.4             | 27.06                  | 27.3                    |  |  |  |
| 817.0                 | 9.71               | 29.30          | 814.9                | 32.6               | 17.1             | 27.70                  | 36.8                    |  |  |  |
| 910.0                 | 12.15              | 30.32          | 906.2                | 47.9               | 25.9             | 28.40                  | 54.5                    |  |  |  |
| 1,000.0               | 14.08              | 32.52          | 993.9                | 65.3               | 36.6             | 29.25                  | 74.9                    |  |  |  |
| 1,091.0               | 16.11              | 32.74          | 1,081.7              | 85.3               | 49.4             | 30.06                  | 98.5                    |  |  |  |

# Scientific Drilling International, Inc.

## SDI Standard Survey Report

|                  |                 |                                     |                                       |
|------------------|-----------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | ConocoPhillips  | <b>Local Co-ordinate Reference:</b> | Well Federal #12N                     |
| <b>Project:</b>  | SAN JUAN BASIN  | <b>TVD Reference:</b>               | HP 283 @ 6747.0ft (16' DF + 6731' GL) |
| <b>Site:</b>     | SEC 23-T26N-R6W | <b>MD Reference:</b>                | HP 283 @ 6747.0ft (16' DF + 6731' GL) |
| <b>Well:</b>     | Federal #12N    | <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<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(ft) | East/West<br>(ft) | Closure Azimuth<br>(°) | Closure Distance<br>(ft) |
| 1,181.0                | 17.48              | 35.69          | 1,167.9                | 106.8               | 64.0              | 30.94                  | 124.5                    |
| 1,270.0                | 18.49              | 29.87          | 1,252.5                | 129.9               | 78.8              | 31.26                  | 151.9                    |
| 1,360.0                | 18.57              | 29.88          | 1,337.9                | 154.7               | 93.1              | 31.04                  | 180.5                    |
| 1,450.0                | 18.88              | 30.72          | 1,423.1                | 179.6               | 107.6             | 30.94                  | 209.4                    |
| 1,540.0                | 18.58              | 30.82          | 1,508.3                | 204.4               | 122.4             | 30.92                  | 238.3                    |
| 1,630.0                | 19.21              | 31.21          | 1,593.5                | 229.4               | 137.5             | 30.93                  | 267.4                    |
| 1,720.0                | 19.11              | 30.58          | 1,678.5                | 254.8               | 152.6             | 30.93                  | 297.0                    |
| 1,810.0                | 19.46              | 30.66          | 1,763.5                | 280.3               | 167.8             | 30.90                  | 326.7                    |
| 1,900.0                | 19.08              | 31.16          | 1,848.4                | 305.8               | 183.0             | 30.90                  | 356.4                    |
| 1,990.0                | 18.48              | 31.22          | 1,933.6                | 330.6               | 198.0             | 30.92                  | 385.4                    |
| 2,080.0                | 20.43              | 27.38          | 2,018.5                | 356.8               | 212.6             | 30.80                  | 415.3                    |
| 2,170.0                | 20.18              | 25.54          | 2,102.9                | 384.7               | 226.6             | 30.49                  | 446.5                    |
| 2,260.0                | 19.67              | 25.81          | 2,187.5                | 412.3               | 239.8             | 30.18                  | 477.0                    |
| 2,350.0                | 19.08              | 24.90          | 2,272.4                | 439.3               | 252.6             | 29.90                  | 506.8                    |
| 2,440.0                | 18.67              | 26.56          | 2,357.6                | 465.6               | 265.3             | 29.67                  | 535.8                    |
| 2,530.0                | 19.35              | 31.05          | 2,442.7                | 491.2               | 279.4             | 29.63                  | 565.1                    |
| 2,620.0                | 19.90              | 31.79          | 2,527.4                | 517.0               | 295.2             | 29.72                  | 595.3                    |
| 2,709.0                | 20.49              | 30.90          | 2,611.0                | 543.3               | 311.1             | 29.80                  | 626.0                    |
| 2,799.0                | 19.66              | 30.95          | 2,695.5                | 569.8               | 327.0             | 29.85                  | 656.9                    |
| 2,889.0                | 16.23              | 26.59          | 2,781.1                | 594.0               | 340.4             | 29.82                  | 684.6                    |
| 2,979.0                | 12.22              | 29.45          | 2,868.3                | 613.5               | 350.8             | 29.76                  | 706.7                    |
| 3,069.0                | 8.31               | 26.68          | 2,956.9                | 627.7               | 358.4             | 29.72                  | 722.7                    |
| 3,159.0                | 6.62               | 20.36          | 3,046.1                | 638.3               | 363.1             | 29.63                  | 734.4                    |
| 3,249.0                | 4.94               | 33.59          | 3,135.7                | 646.4               | 367.0             | 29.59                  | 743.4                    |
| 3,339.0                | 2.56               | 47.80          | 3,225.5                | 651.0               | 370.7             | 29.66                  | 749.1                    |
| 3,429.0                | 1.08               | 182.86         | 3,315.4                | 651.5               | 372.1             | 29.73                  | 750.3                    |
| 3,518.0                | 1.20               | 178.82         | 3,404.4                | 649.7               | 372.1             | 29.80                  | 748.7                    |
| 3,608.0                | 1.29               | 129.22         | 3,494.4                | 648.2               | 372.9             | 29.91                  | 747.8                    |
| 3,698.0                | 1.25               | 135.99         | 3,584.4                | 646.8               | 374.4             | 30.06                  | 747.3                    |
| 3,788.0                | 0.91               | 128.98         | 3,674.4                | 645.6               | 375.6             | 30.19                  | 747.0                    |
| 3,878.0                | 1.10               | 88.67          | 3,764.3                | 645.2               | 377.0             | 30.30                  | 747.3                    |
| 3,968.0                | 1.19               | 87.57          | 3,854.3                | 645.3               | 378.8             | 30.42                  | 748.3                    |
| 4,058.0                | 1.02               | 106.30         | 3,944.3                | 645.1               | 380.5             | 30.53                  | 749.0                    |
| 4,148.0                | 0.78               | 121.84         | 4,034.3                | 644.5               | 381.8             | 30.64                  | 749.1                    |
| 4,238.0                | 0.68               | 120.99         | 4,124.3                | 643.9               | 382.8             | 30.73                  | 749.1                    |
| 4,328.0                | 0.95               | 131.51         | 4,214.3                | 643.2               | 383.8             | 30.83                  | 749.0                    |
| 4,418.0                | 0.92               | 142.01         | 4,304.3                | 642.1               | 384.8             | 30.93                  | 748.6                    |
| 4,508.0                | 0.94               | 141.24         | 4,394.3                | 641.0               | 385.7             | 31.04                  | 748.1                    |
| 4,598.0                | 0.93               | 148.55         | 4,484.3                | 639.8               | 386.6             | 31.14                  | 747.5                    |
| 4,688.0                | 0.60               | 147.69         | 4,574.2                | 638.7               | 387.2             | 31.22                  | 746.9                    |
| 4,778.0                | 0.65               | 140.85         | 4,664.2                | 638.0               | 387.8             | 31.29                  | 746.6                    |
| 4,868.0                | 0.49               | 175.27         | 4,754.2                | 637.2               | 388.1             | 31.35                  | 746.1                    |
| 4,958.0                | 0.58               | 170.45         | 4,844.2                | 636.3               | 388.2             | 31.39                  | 745.4                    |
| 5,003.0                | 0.62               | 192.83         | 4,889.2                | 635.9               | 388.2             | 31.40                  | 745.0                    |