

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

DISTRICT II  
1301 West 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, 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

Submit to Appropriate District Office  
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Fee Lease - 3 Copies

"AS DRILLED PLAT"

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                    |  |                                                                        |  |                                                    |                            |
|------------------------------------|--|------------------------------------------------------------------------|--|----------------------------------------------------|----------------------------|
| *API Number<br><b>30-039-30801</b> |  | *Pool Code<br><b>71599 / 72319</b>                                     |  | *Pool Name<br><b>BASIN DAKOTA/BLANCO MESAVERDE</b> |                            |
| *Property Code<br><b>7465</b>      |  | *Property Name<br><b>SAN JUAN 29-7 UNIT</b>                            |  |                                                    | *Well Number<br><b>53M</b> |
| *GRID No.<br><b>14538</b>          |  | *Operator Name<br><b>BURLINGTON RESOURCES OIL &amp; GAS COMPANY LP</b> |  |                                                    | *Elevation<br><b>6846'</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     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| F             | 27      | 29-N     | 7-W   |         | 1590'         | NORTH            | 2140'         | 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     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| B             | 27      | 29-N     | 7-W   |         | 715           | NORTH            | 1999          | EAST           | RIO ARriba |

|                                                                             |  |                               |                                  |                         |
|-----------------------------------------------------------------------------|--|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>MV 320.00 ACRES E/2<br>DK 320.00 ACRES E/2 |  | <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>16</sup><br><p>LAT: 36°41.9817' N.<br/>LONG: 107°33.5658' W.<br/>NAD 1927</p> <p>LAT: 36.699702° N.<br/>LONG: 107.560037° W.<br/>NAD 1983<br/>Surface</p>                                                                                                                                                                                                                    |  | <sup>17</sup> OPERATOR CERTIFICATION<br>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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.<br><br><br>Signature<br><b>Crystal Tafoya 1/31/11</b><br>Printed Name |
| <sup>18</sup> SURVEYOR CERTIFICATION<br>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.<br><br>Date of Survey <b>1-31-11</b><br>Signature and Seal of Professional Surveyor:<br><br>Certificate Number <b>15703</b> |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|                                                            |                                      |
|------------------------------------------------------------|--------------------------------------|
| <b>Legal WellName :</b> SAN JUAN 29-7 UNIT #53M            | <b>API / UWI:</b> 3003930801         |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP | <b>Surf Loc:</b> 027-029N-007W-F     |
| <b>St/Prov:</b> NEW MEXICO                                 | <b>N/S Dist (ft):</b> 1,590.00 - FNL |
| <b>County:</b> RIO ARRIBA                                  | <b>E/W Dist (ft):</b> 2,140.00 - FWL |

| Wellbore Name : Original Hole |            |                |                        |                    |
|-------------------------------|------------|----------------|------------------------|--------------------|
| Description                   | Date       | MD Tie In (ft) | Inclination Tie In (°) | Azimuth Tie In (°) |
| INCLINATION SURVEY            | 11/04/2010 | .00            | .00                    | .00                |

| Date       | MD (ft) | Incl (°) | Azm (°) | Method   | Survey Company     |
|------------|---------|----------|---------|----------|--------------------|
| 11/04/2010 | 129.00  | 1.00     | .00     | Inc-Drop | MO-TE DRILLING INC |
| 11/04/2010 | 239.00  | 1.50     | .00     | Inc-Drop | MO-TE DRILLING INC |

| Description | Date       | MD Tie In (ft) | Inclination Tie In (°) | Azimuth Tie In (°) |
|-------------|------------|----------------|------------------------|--------------------|
| MWD SURVEY  | 12/04/2010 | .00            | .00                    | .00                |

| Date       | MD (ft)  | Incl (°) | Azm (°) | Method     | Survey Company      |
|------------|----------|----------|---------|------------|---------------------|
| 12/05/2010 | 295.00   | 2.02     | 138.94  | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 356.00   | 2.04     | 115.72  | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 418.00   | 3.05     | 83.59   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 479.00   | 4.71     | 73.97   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 541.00   | 6.25     | 65.40   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 601.00   | 7.14     | 60.68   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 663.00   | 7.79     | 57.79   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 724.00   | 8.82     | 58.97   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 786.00   | 10.09    | 61.79   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 847.00   | 11.08    | 60.11   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 909.00   | 12.33    | 58.00   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 974.00   | 13.67    | 55.98   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,037.00 | 15.36    | 55.25   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,100.00 | 16.68    | 55.30   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,164.00 | 18.48    | 53.32   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,227.00 | 19.95    | 52.18   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,290.00 | 21.26    | 51.86   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,353.00 | 22.34    | 51.85   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,416.00 | 22.94    | 51.72   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,479.00 | 23.18    | 51.16   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,543.00 | 23.47    | 51.25   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,605.00 | 23.79    | 51.28   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,669.00 | 24.17    | 51.41   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,732.00 | 23.82    | 50.83   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,795.00 | 23.36    | 51.71   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,858.00 | 23.93    | 52.25   | IncAzi-MWD | Scientific Drilling |
| 12/05/2010 | 1,921.00 | 23.97    | 51.91   | IncAzi-MWD | Scientific Drilling |

| 12/06/2010      | 1,984.00   | 24.34          | 52.17                  | IncAzi-MWD         | Scientific Drilling |
|-----------------|------------|----------------|------------------------|--------------------|---------------------|
| 12/06/2010      | 2,048.00   | 23.80          | 51.46                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,111.00   | 24.25          | 51.19                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,174.00   | 24.39          | 51.00                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,237.00   | 24.70          | 50.80                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,300.00   | 24.96          | 50.54                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,363.00   | 25.94          | 49.93                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,426.00   | 26.40          | 49.86                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,489.00   | 26.20          | 49.94                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,552.00   | 26.09          | 49.70                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,615.00   | 26.86          | 50.71                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,679.00   | 26.45          | 50.64                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,742.00   | 26.79          | 50.56                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,805.00   | 27.11          | 51.92                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,868.00   | 27.44          | 52.50                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,931.00   | 27.87          | 53.86                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 2,995.00   | 28.32          | 54.24                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,058.00   | 28.57          | 54.05                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,121.00   | 28.87          | 54.04                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,185.00   | 28.86          | 53.71                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,248.00   | 29.27          | 53.36                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,311.00   | 29.29          | 52.76                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,374.00   | 29.07          | 52.77                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,437.00   | 29.16          | 52.32                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,500.00   | 28.45          | 52.43                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,563.00   | 27.47          | 52.44                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,626.00   | 26.39          | 50.93                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,689.00   | 24.17          | 50.05                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,752.00   | 22.22          | 50.54                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,814.00   | 19.83          | 49.78                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,877.00   | 17.77          | 48.99                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 3,940.00   | 16.81          | 48.71                  | IncAzi-MWD         | Scientific Drilling |
| 12/06/2010      | 4,003.00   | 16.48          | 50.13                  | IncAzi-MWD         | Scientific Drilling |
| 12/07/2010      | 4,066.00   | 15.28          | 50.52                  | IncAzi-MWD         | Scientific Drilling |
| 12/07/2010      | 4,129.00   | 14.53          | 48.86                  | IncAzi-MWD         | Scientific Drilling |
| 12/07/2010      | 4,192.00   | 12.91          | 48.12                  | IncAzi-MWD         | Scientific Drilling |
| 12/07/2010      | 4,255.00   | 11.51          | 48.98                  | IncAzi-MWD         | Scientific Drilling |
| 12/07/2010      | 4,318.00   | 9.66           | 52.45                  | IncAzi-MWD         | Scientific Drilling |
| 12/07/2010      | 4,381.00   | 8.42           | 53.39                  | IncAzi-MWD         | Scientific Drilling |
| 12/07/2010      | 4,444.00   | 7.24           | 55.82                  | IncAzi-MWD         | Scientific Drilling |
| 12/07/2010      | 4,507.00   | 5.67           | 58.73                  | IncAzi-MWD         | Scientific Drilling |
| 12/07/2010      | 4,570.00   | 4.52           | 57.21                  | IncAzi-MWD         | Scientific Drilling |
| 12/07/2010      | 4,633.00   | 3.36           | 59.90                  | IncAzi-MWD         | Scientific Drilling |
| 12/07/2010      | 4,689.00   | 2.87           | 60.83                  | IncAzi-MWD         | Scientific Drilling |
| Description     | Date       | MD Tie In (ft) | Inclination Tie In (°) | Azimuth Tie In (°) |                     |
| FINAL BH SURVEY | 12/15/2010 | .00            | .00                    | .00                |                     |

| Date       | MD<br>(ft) | Incl<br>(°) | Azm<br>(°) | Method | Survey Company       |
|------------|------------|-------------|------------|--------|----------------------|
| 12/15/2010 | 8,358.00   | .75         | .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.

BEN TOUMAN

Subscribed and sworn to me this January 31, 2011

Crystal L. Tafaya

Notary Public in and for San Juan County, New Mexico

RCVD FEB 1'11  
OIL CONS. DIV.  
DIST. 3

My Commission expires 10/12/2014

RCVD FEB 1 '11  
OIL CONS. DIV.

DIST. 3

# ConocoPhillips

SJB (NM Central)

SEC 27-T27N-R7W

SJ 29-7 #53M

Original Hole

API# 30.039.30801

Survey: Actual

## SDI Standard Survey Report

26 December, 2010

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

Wharton

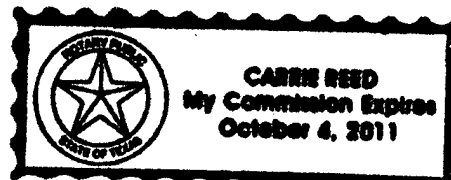
Notorized this date 29th of December, 2010.

Carrie Reed

Notary Signature

County of Midland

State of Texas

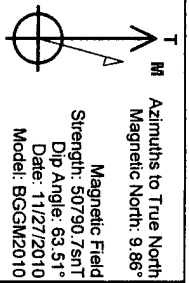




Scientific Drilling  
Directional Drilling Operations

Project: SJB (NM Central)  
Site: SEC 27-T27N-R7W  
Well: SJ 29-7 #53M  
Wellbore: Original Hole  
Design: Plan #1 Rev #1

ConocoPhillips

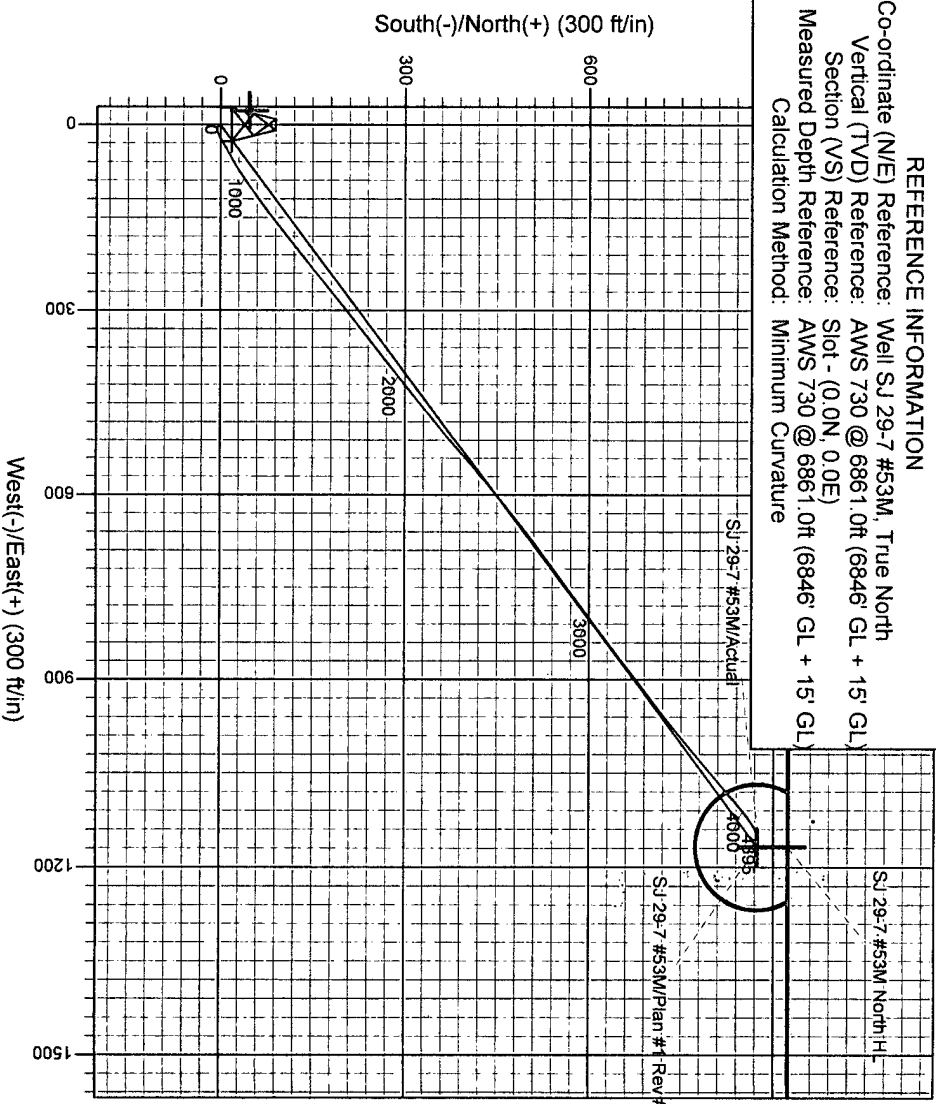
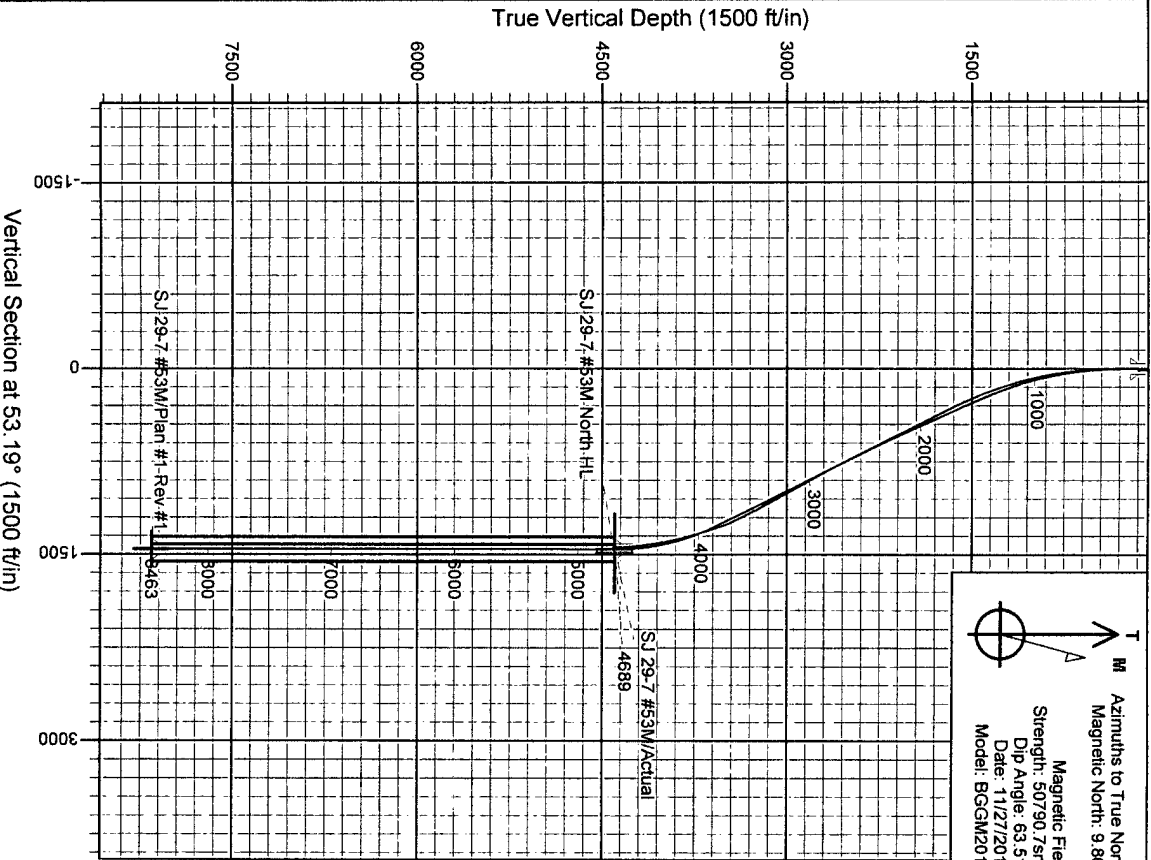


|  | +N/-S | +E/-W | North      | East      | Latitude         | Longitude         | Slot |
|--|-------|-------|------------|-----------|------------------|-------------------|------|
|  | 0.0   | 0.0   | 2076530.52 | 116124.83 | 36° 41' 58.902 N | 107° 33' 33.948 W |      |

WELL DETAILS: SJ 29-7 #53M  
AWS 730 @ 6861.0ft (6846' GL + 15' GL)  
Ground Level: 6846.0

#### REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well SJ 29-7 #53M, True North  
Vertical (TVD) Reference: AWS 730 @ 6861.0ft (6846' GL + 15' GL)  
Section (VS) Reference: Slot - (0.0N, 0.0E)  
Measured Depth Reference: AWS 730 @ 6861.0ft (6846' GL + 15' GL)  
Calculation Method: Minimum Curvature



#### 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: SJB (NM Central)

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

#### SITE DETAILS: SEC 27-T27N-R7W

Rio Arriba County NM  
Site Centre Latitude: 36° 41' 58.902 N  
Longitude: 107° 33' 33.948 W  
Positional Uncertainty: 7.5  
Convergence: -0.78  
Local North: True

**Scientific Drilling International, Inc.**  
SDI Standard Survey Report

|                  |                  |                                     |                                        |
|------------------|------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | ConocoPhillips   | <b>Local Co-ordinate Reference:</b> | Well SJ 29-7 #53M                      |
| <b>Project:</b>  | SJB (NM Central) | <b>TVD Reference:</b>               | AWS 730 @ 6861.0ft (6846' GL + 15' GL) |
| <b>Site:</b>     | SEC 27-T27N-R7W  | <b>MD Reference:</b>                | AWS 730 @ 6861.0ft (6846' GL + 15' GL) |
| <b>Well:</b>     | SJ 29-7 #53M     | <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 27-T27N-R7W |                 |                   |                   |
| Site Position:        |          | Northing:       | 2,076,530.52 ft | Latitude:         | 36° 41' 58.902 N  |
| From:                 | Lat/Long | Easting:        | 116,124.83 ft   | Longitude:        | 107° 33' 33.948 W |
| Position Uncertainty: | 15.0 ft  | Slot Radius:    | 6-1/8"          | Grid Convergence: | -0.78 °           |

|                      |                                 |        |                     |                 |               |                   |
|----------------------|---------------------------------|--------|---------------------|-----------------|---------------|-------------------|
| Well                 | SJ 29-7 #53M, S-Type MV/DK Well |        |                     |                 |               |                   |
| Well Position        | +N/-S                           | 0.0 ft | Northing:           | 2,076,530.52 ft | Latitude:     | 36° 41' 58.902 N  |
|                      | +E/-W                           | 0.0 ft | Easting:            | 116,124.83 ft   | Longitude:    | 107° 33' 33.948 W |
| Position Uncertainty |                                 | 3.5 ft | Wellhead Elevation: | ft              | Ground Level: | 6,846.0 ft        |

|                  |                   |                    |                            |                          |                                |
|------------------|-------------------|--------------------|----------------------------|--------------------------|--------------------------------|
| <b>Wellbore</b>  | Original Hole     |                    |                            |                          |                                |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination<br/>(°)</b> | <b>Dip Angle<br/>(°)</b> | <b>Field Strength<br/>(nT)</b> |
|                  | BGGM2010          | 11/27/2010         | 9.86                       | 63.51                    | 50,791                         |

|                   |                          |               |               |                   |
|-------------------|--------------------------|---------------|---------------|-------------------|
| 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           | 52.65             |

|                       |                    |                          |                  |                          |  |
|-----------------------|--------------------|--------------------------|------------------|--------------------------|--|
| <b>Survey Program</b> | <b>Date</b>        | 12/26/2010               |                  |                          |  |
| <b>From<br/>(ft)</b>  | <b>To<br/>(ft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b>       |  |
| 295.0                 | 4,689.0            | Actual (Original Hole)   | MWD SDI          | MWD - Standard ver 1.0.1 |  |

|                                |                            |                        |                                |                             |                           |                                |                                  |  |
|--------------------------------|----------------------------|------------------------|--------------------------------|-----------------------------|---------------------------|--------------------------------|----------------------------------|--|
| <b>Survey</b>                  |                            |                        |                                |                             |                           |                                |                                  |  |
| <b>Measured Depth<br/>(ft)</b> | <b>Inclination<br/>(°)</b> | <b>Azimuth<br/>(°)</b> | <b>True Vertical<br/>Depth</b> | <b>North/South<br/>(ft)</b> | <b>East/West<br/>(ft)</b> | <b>Closure Azimuth<br/>(°)</b> | <b>Closure Distance<br/>(ft)</b> |  |
| 0.0                            | 0.00                       | 0.00                   | 0.0                            | 0.0                         | 0.0                       | 0.00                           | 0.0                              |  |
| 295.0                          | 2.02                       | 138.94                 | 294.9                          | -3.9                        | 3.4                       | 138.94                         | 5.2                              |  |
| 356.0                          | 2.04                       | 115.72                 | 355.9                          | -5.2                        | 5.1                       | 135.57                         | 7.3                              |  |
| 418.0                          | 3.05                       | 83.59                  | 417.8                          | -5.5                        | 7.7                       | 125.41                         | 9.5                              |  |
| 479.0                          | 4.71                       | 73.97                  | 478.7                          | -4.6                        | 11.8                      | 111.48                         | 12.6                             |  |
| 541.0                          | 6.25                       | 65.40                  | 540.4                          | -2.5                        | 17.3                      | 98.29                          | 17.5                             |  |
| 601.0                          | 7.14                       | 60.68                  | 600.0                          | 0.7                         | 23.5                      | 88.37                          | 23.5                             |  |
| 663.0                          | 7.79                       | 57.79                  | 661.5                          | 4.8                         | 30.4                      | 81.04                          | 30.8                             |  |
| 724.0                          | 8.82                       | 58.97                  | 721.8                          | 9.4                         | 37.9                      | 76.06                          | 39.1                             |  |
| 786.0                          | 10.09                      | 61.79                  | 783.0                          | 14.4                        | 46.8                      | 72.86                          | 48.9                             |  |
| 847.0                          | 11.08                      | 60.11                  | 843.0                          | 19.9                        | 56.6                      | 70.64                          | 60.0                             |  |
| 909.0                          | 12.33                      | 58.00                  | 903.7                          | 26.4                        | 67.3                      | 68.63                          | 72.3                             |  |

# Scientific Drilling International, Inc.

## SDI Standard Survey Report

|                  |                  |                                     |                                        |
|------------------|------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | ConocoPhillips   | <b>Local Co-ordinate Reference:</b> | Well SJ 29-7 #53M                      |
| <b>Project:</b>  | SJB (NM Central) | <b>TVD Reference:</b>               | AWS 730 @ 6861.0ft (6846' GL + 15' GL) |
| <b>Site:</b>     | SEC 27-T27N-R7W  | <b>MD Reference:</b>                | AWS 730 @ 6861.0ft (6846' GL + 15' GL) |
| <b>Well:</b>     | SJ 29-7 #53M     | <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) |
|------------------------|--------------------|----------------|------------------------|---------------------|-------------------|------------------------|--------------------------|
| 974.0                  | 13.67              | 55.98          | 967.0                  | 34.3                | 79.6              | 66.67                  | 86.7                     |
| 1,037.0                | 15.36              | 55.25          | 1,028.0                | 43.2                | 92.6              | 64.97                  | 102.2                    |
| 1,100.0                | 16.68              | 55.30          | 1,088.5                | 53.2                | 106.9             | 63.56                  | 119.4                    |
| 1,164.0                | 18.48              | 53.32          | 1,149.6                | 64.4                | 122.6             | 62.27                  | 138.5                    |
| 1,227.0                | 19.95              | 52.18          | 1,209.0                | 77.0                | 139.1             | 61.03                  | 159.0                    |
| 1,290.0                | 21.26              | 51.86          | 1,268.0                | 90.6                | 156.6             | 59.93                  | 180.9                    |
| 1,353.0                | 22.34              | 51.85          | 1,326.5                | 105.1               | 175.0             | 59.01                  | 204.1                    |
| 1,416.0                | 22.94              | 51.72          | 1,384.6                | 120.1               | 194.0             | 58.24                  | 228.2                    |
| 1,479.0                | 23.18              | 51.16          | 1,442.6                | 135.5               | 213.3             | 57.58                  | 252.7                    |
| 1,543.0                | 23.47              | 51.25          | 1,501.4                | 151.4               | 233.1             | 57.00                  | 277.9                    |
| 1,605.0                | 23.79              | 51.28          | 1,558.2                | 166.9               | 252.5             | 56.53                  | 302.6                    |
| 1,669.0                | 24.17              | 51.41          | 1,616.7                | 183.1               | 272.8             | 56.12                  | 328.5                    |
| 1,732.0                | 23.82              | 50.83          | 1,674.2                | 199.2               | 292.7             | 55.76                  | 354.1                    |
| 1,795.0                | 23.36              | 51.71          | 1,732.0                | 215.0               | 312.4             | 55.46                  | 379.2                    |
| 1,858.0                | 23.93              | 52.25          | 1,789.7                | 230.6               | 332.3             | 55.24                  | 404.4                    |
| 1,921.0                | 23.97              | 51.91          | 1,847.2                | 246.3               | 352.5             | 55.06                  | 430.0                    |
| 1,984.0                | 24.34              | 52.17          | 1,904.7                | 262.1               | 372.8             | 54.89                  | 455.7                    |
| 2,048.0                | 23.80              | 51.46          | 1,963.2                | 278.3               | 393.3             | 54.72                  | 481.8                    |
| 2,111.0                | 24.25              | 51.19          | 2,020.7                | 294.3               | 413.3             | 54.55                  | 507.4                    |
| 2,174.0                | 24.39              | 51.00          | 2,078.1                | 310.6               | 433.5             | 54.38                  | 533.3                    |
| 2,237.0                | 24.70              | 50.80          | 2,135.4                | 327.1               | 453.8             | 54.22                  | 559.4                    |
| 2,300.0                | 24.96              | 50.54          | 2,192.6                | 343.9               | 474.3             | 54.06                  | 585.8                    |
| 2,363.0                | 25.94              | 49.93          | 2,249.5                | 361.2               | 495.1             | 53.89                  | 612.8                    |
| 2,426.0                | 26.40              | 49.86          | 2,306.0                | 379.1               | 516.3             | 53.71                  | 640.6                    |
| 2,489.0                | 26.20              | 49.94          | 2,362.5                | 397.1               | 537.7             | 53.56                  | 668.4                    |
| 2,552.0                | 26.09              | 49.70          | 2,419.1                | 415.0               | 558.9             | 53.41                  | 696.1                    |
| 2,615.0                | 26.86              | 50.71          | 2,475.4                | 433.0               | 580.5             | 53.28                  | 724.2                    |
| 2,679.0                | 26.45              | 50.64          | 2,532.6                | 451.1               | 602.7             | 53.18                  | 752.8                    |
| 2,742.0                | 26.79              | 50.56          | 2,589.0                | 469.1               | 624.5             | 53.09                  | 781.0                    |
| 2,805.0                | 27.11              | 51.92          | 2,645.1                | 486.9               | 646.8             | 53.03                  | 809.6                    |
| 2,868.0                | 27.44              | 52.50          | 2,701.1                | 504.6               | 669.6             | 53.00                  | 838.5                    |
| 2,931.0                | 27.87              | 53.86          | 2,756.9                | 522.1               | 693.0             | 53.00                  | 867.7                    |
| 2,995.0                | 28.32              | 54.24          | 2,813.4                | 539.8               | 717.4             | 53.04                  | 897.8                    |
| 3,058.0                | 28.57              | 54.05          | 2,868.8                | 557.4               | 741.7             | 53.07                  | 927.8                    |
| 3,121.0                | 28.87              | 54.04          | 2,924.0                | 575.2               | 766.2             | 53.10                  | 958.1                    |
| 3,185.0                | 28.86              | 53.71          | 2,980.1                | 593.4               | 791.2             | 53.13                  | 989.0                    |
| 3,248.0                | 29.27              | 53.36          | 3,035.1                | 611.6               | 815.8             | 53.14                  | 1,019.6                  |
| 3,311.0                | 29.29              | 52.76          | 3,090.1                | 630.1               | 840.4             | 53.14                  | 1,050.4                  |
| 3,374.0                | 29.07              | 52.77          | 3,145.1                | 648.7               | 864.9             | 53.13                  | 1,081.1                  |
| 3,437.0                | 29.16              | 52.32          | 3,200.1                | 667.3               | 889.2             | 53.11                  | 1,111.8                  |
| 3,500.0                | 28.45              | 52.43          | 3,255.3                | 685.9               | 913.3             | 53.09                  | 1,142.1                  |
| 3,563.0                | 27.47              | 52.44          | 3,311.0                | 703.9               | 936.7             | 53.08                  | 1,171.7                  |
| 3,626.0                | 26.39              | 50.93          | 3,367.2                | 721.6               | 959.1             | 53.04                  | 1,200.2                  |
| 3,689.0                | 24.17              | 50.05          | 3,424.1                | 738.7               | 979.8             | 52.99                  | 1,227.1                  |



**Scientific Drilling International, Inc.**  
SDI Standard Survey Report

|                  |                  |                                     |                                        |
|------------------|------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | ConocoPhillips   | <b>Local Co-ordinate Reference:</b> | Well SJ 29-7 #53M                      |
| <b>Project:</b>  | SJB (NM Central) | <b>TVD Reference:</b>               | AWS 730 @ 6861.0ft (6846' GL + 15' GL) |
| <b>Site:</b>     | SEC 27-T27N-R7W  | <b>MD Reference:</b>                | AWS 730 @ 6861.0ft (6846' GL + 15' GL) |
| <b>Well:</b>     | SJ 29-7 #53M     | <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) |
| 3,752.0                | 22.22              | 50.54          | 3,482.0                | 754.5               | 998.9             | 52.93                  | 1,251.8                  |
| 3,814.0                | 19.83              | 49.78          | 3,539.9                | 768.8               | 1,016.0           | 52.89                  | 1,274.1                  |
| 3,877.0                | 17.77              | 48.99          | 3,599.5                | 782.0               | 1,031.4           | 52.83                  | 1,294.3                  |
| 3,940.0                | 16.81              | 48.71          | 3,659.7                | 794.3               | 1,045.5           | 52.77                  | 1,313.0                  |
| 4,003.0                | 16.48              | 50.13          | 3,720.0                | 806.0               | 1,059.2           | 52.73                  | 1,331.0                  |
| 4,066.0                | 15.28              | 50.52          | 3,780.6                | 817.0               | 1,072.5           | 52.70                  | 1,348.2                  |
| 4,129.0                | 14.53              | 48.86          | 3,841.5                | 827.5               | 1,084.8           | 52.66                  | 1,364.4                  |
| 4,192.0                | 12.91              | 48.12          | 3,902.7                | 837.4               | 1,096.0           | 52.62                  | 1,379.3                  |
| 4,255.0                | 11.51              | 48.98          | 3,964.3                | 846.2               | 1,106.0           | 52.58                  | 1,392.6                  |
| 4,318.0                | 9.66               | 52.45          | 4,026.2                | 853.6               | 1,114.9           | 52.56                  | 1,404.2                  |
| 4,381.0                | 8.42               | 53.39          | 4,088.4                | 859.6               | 1,122.8           | 52.56                  | 1,414.1                  |
| 4,444.0                | 7.24               | 55.82          | 4,150.8                | 864.5               | 1,129.8           | 52.58                  | 1,422.6                  |
| 4,507.0                | 5.67               | 58.73          | 4,213.4                | 868.4               | 1,135.8           | 52.60                  | 1,429.7                  |
| 4,570.0                | 4.52               | 57.21          | 4,276.2                | 871.4               | 1,140.5           | 52.62                  | 1,435.3                  |
| 4,633.0                | 3.36               | 59.90          | 4,339.0                | 873.6               | 1,144.2           | 52.64                  | 1,439.6                  |
| 4,689.0                | 2.87               | 60.83          | 4,395.0                | 875.1               | 1,146.8           | 52.65                  | 1,442.6                  |