

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 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

State Lease - 4 Copies

Fee Lease - 3 Copies

**"AS DRILLED PLAT"**☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                |                                                                                    |                                                                         |
|------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <sup>1</sup> API Number<br><b>30-039-30266</b> | <sup>2</sup> Pool Code<br><b>72319 / 71599</b>                                     | <sup>3</sup> Pool Name <b>BASIN</b><br><b>BLANCO MESAVERDE / DAKOTA</b> |
| <sup>4</sup> Property Code<br><b>7452</b>      | <sup>5</sup> Property Name<br><b>SAN JUAN 27-4 UNIT</b>                            | <sup>6</sup> Well Number<br><b>141M</b>                                 |
| <sup>7</sup> OGRID No.<br><b>14538</b>         | <sup>8</sup> Operator Name<br><b>BURLINGTON RESOURCES OIL &amp; GAS COMPANY LP</b> | <sup>9</sup> Elevation<br><b>7126</b>                                   |

<sup>10</sup> SURFACE LOCATION

|                           |                      |                         |                     |         |                             |                                  |                             |                               |                             |
|---------------------------|----------------------|-------------------------|---------------------|---------|-----------------------------|----------------------------------|-----------------------------|-------------------------------|-----------------------------|
| UL or lot no.<br><b>A</b> | Section<br><b>16</b> | Township<br><b>27-N</b> | Range<br><b>4-W</b> | Lot Idn | Feet from the<br><b>855</b> | North/South line<br><b>NORTH</b> | Feet from the<br><b>600</b> | East/West line<br><b>EAST</b> | County<br><b>RIO ARRIBA</b> |
|---------------------------|----------------------|-------------------------|---------------------|---------|-----------------------------|----------------------------------|-----------------------------|-------------------------------|-----------------------------|

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

|                           |                      |                         |                     |         |                             |                                  |                             |                               |                             |
|---------------------------|----------------------|-------------------------|---------------------|---------|-----------------------------|----------------------------------|-----------------------------|-------------------------------|-----------------------------|
| UL or lot no.<br><b>D</b> | Section<br><b>15</b> | Township<br><b>27-N</b> | Range<br><b>4-W</b> | Lot Idn | Feet from the<br><b>859</b> | North/South line<br><b>NORTH</b> | Feet from the<br><b>707</b> | East/West line<br><b>WEST</b> | County<br><b>RIO ARRIBA</b> |
|---------------------------|----------------------|-------------------------|---------------------|---------|-----------------------------|----------------------------------|-----------------------------|-------------------------------|-----------------------------|

|                                                                             |                               |                                  |                         |
|-----------------------------------------------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br><b>MV W/2 320.0</b><br><b>DK N/2 320.0</b> | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-----------------------------------------------------------------------------|-------------------------------|----------------------------------|-------------------------|

RCVD AUG 11 '09  
OIL CONS. DIV.

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

DIST. 3

<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.

*Crystal Tafaya* 8/4/09  
Signature  
**Crystal Tafaya**

Printed Name

**Regulatory Technician**

Title and E-mail Address

**August 4th, 2009**

Date

<sup>18</sup> SURVEYOR CERTIFICATION

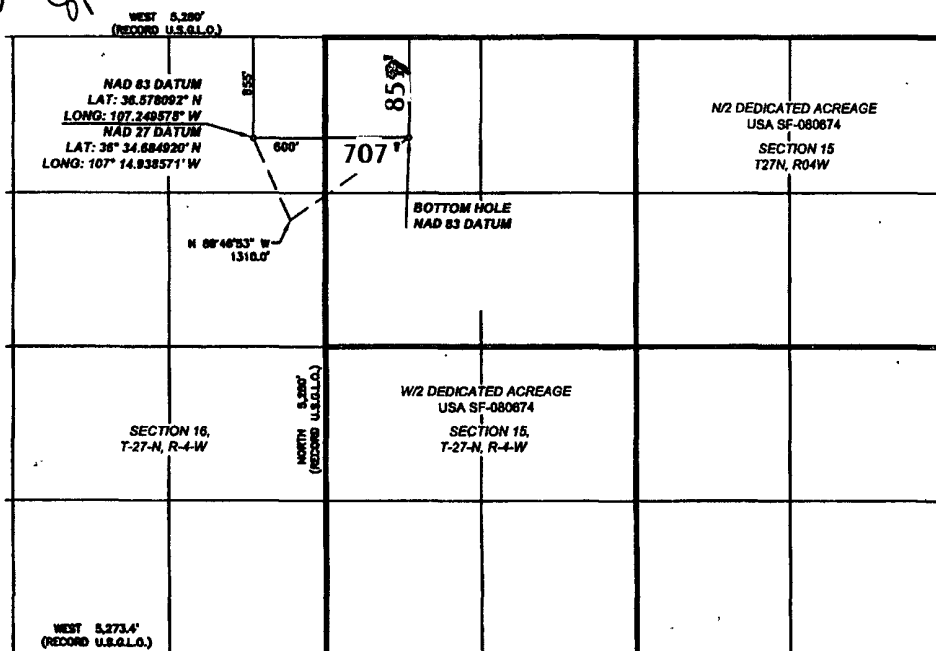
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 7/25/06

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

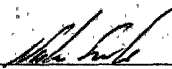


**COP Deviation Report**  
**SAN JUAN 27-4 UNIT #141M**

|                                                  |                                            |                         |                         |                              |
|--------------------------------------------------|--------------------------------------------|-------------------------|-------------------------|------------------------------|
| Operator<br>BURLINGTON RESOURCES OIL &<br>GAS CO | Legal WellName<br>SAN JUAN 27-4 UNIT #141M | API / UWI<br>3003930266 | County<br>RIO ARRIBA    | State/Province<br>NEW MEXICO |
| Surface Legal Location<br>016-027N-004W-A        | N/S Dist (ft)<br>855.00                    | N/S Ref<br>FNL          | E/W Dist (ft)<br>600.00 | E/W Ref<br>FEL               |

| Survey Data |            |           |            |                     |
|-------------|------------|-----------|------------|---------------------|
| Date        | MD (ft/KB) | Incl. (°) | Method     | Survey Company      |
| 8/4/2008    | 130.00     | 0.50      | A1SureShot | Mo-Te Drilling Inc. |
| 8/4/2008    | 250.00     | 2.00      | A1SureShot | Mo-Te Drilling Inc. |
| 8/4/2008    | 361.00     | 1.75      | A1SureShot | Mo-Te Drilling Inc. |
| 8/10/2008   | 366.00     | 1.31      | MWD        | Scientific Drilling |
| 8/10/2008   | 396.00     | 1.68      | MWD        | Scientific Drilling |
| 8/10/2008   | 427.00     | 2.33      | MWD        | Scientific Drilling |
| 8/10/2008   | 459.00     | 3.46      | MWD        | Scientific Drilling |
| 8/10/2008   | 489.00     | 4.06      | MWD        | Scientific Drilling |
| 8/10/2008   | 521.00     | 5.04      | MWD        | Scientific Drilling |
| 8/10/2008   | 582.00     | 5.77      | MWD        | Scientific Drilling |
| 8/10/2008   | 646.00     | 5.98      | MWD        | Scientific Drilling |
| 8/10/2008   | 705.00     | 7.23      | MWD        | Scientific Drilling |
| 8/10/2008   | 766.00     | 7.80      | MWD        | Scientific Drilling |
| 8/10/2008   | 829.00     | 8.81      | MWD        | Scientific Drilling |
| 8/10/2008   | 893.00     | 10.19     | MWD        | Scientific Drilling |
| 8/10/2008   | 957.00     | 10.82     | MWD        | Scientific Drilling |
| 8/10/2008   | 1,021.00   | 11.83     | MWD        | Scientific Drilling |
| 8/10/2008   | 1,084.00   | 12.36     | MWD        | Scientific Drilling |
| 8/10/2008   | 1,148.00   | 13.65     | MWD        | Scientific Drilling |
| 8/10/2008   | 1,210.00   | 14.91     | MWD        | Scientific Drilling |
| 8/10/2008   | 1,274.00   | 16.63     | MWD        | Scientific Drilling |
| 8/10/2008   | 1,338.00   | 18.12     | MWD        | Scientific Drilling |
| 8/10/2008   | 1,401.00   | 19.12     | MWD        | Scientific Drilling |
| 8/11/2008   | 1,464.00   | 20.32     | MWD        | Scientific Drilling |
| 8/11/2008   | 1,527.00   | 20.47     | MWD        | Scientific Drilling |
| 8/11/2008   | 1,655.00   | 19.54     | MWD        | Scientific Drilling |
| 8/11/2008   | 1,846.00   | 20.13     | MWD        | Scientific Drilling |
| 8/11/2008   | 1,909.00   | 19.35     | MWD        | Scientific Drilling |
| 8/11/2008   | 1,973.00   | 18.87     | MWD        | Scientific Drilling |
| 8/11/2008   | 2,036.00   | 19.26     | MWD        | Scientific Drilling |
| 8/11/2008   | 2,099.00   | 19.16     | MWD        | Scientific Drilling |
| 8/11/2008   | 2,163.00   | 19.03     | MWD        | Scientific Drilling |
| 8/11/2008   | 2,226.00   | 19.41     | MWD        | Scientific Drilling |
| 8/11/2008   | 2,290.00   | 19.41     | MWD        | Scientific Drilling |
| 8/11/2008   | 2,353.00   | 19.16     | MWD        | Scientific Drilling |

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 Aug 3, 2009

  
Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2010

# COP Deviation Report

## SAN JUAN 27-4 UNIT #141M

### Survey Data

| Date      | MD (ftKB) | Incl (°) | Method | Survey Company      |
|-----------|-----------|----------|--------|---------------------|
| 8/11/2008 | 2,416.00  | 19.08    | MWD    | Scientific Drilling |
| 8/11/2008 | 2,480.00  | 18.08    | MWD    | Scientific Drilling |
| 8/11/2008 | 2,544.00  | 18.88    | MWD    | Scientific Drilling |
| 8/11/2008 | 2,606.00  | 20.18    | MWD    | Scientific Drilling |
| 8/11/2008 | 2,669.00  | 20.47    | MWD    | Scientific Drilling |
| 8/11/2008 | 2,733.00  | 20.05    | MWD    | Scientific Drilling |
| 8/11/2008 | 2,797.00  | 19.67    | MWD    | Scientific Drilling |
| 8/11/2008 | 2,860.00  | 19.66    | MWD    | Scientific Drilling |
| 8/11/2008 | 2,925.00  | 19.61    | MWD    | Scientific Drilling |
| 8/11/2008 | 2,988.00  | 19.70    | MWD    | Scientific Drilling |
| 8/11/2008 | 3,052.00  | 20.97    | MWD    | Scientific Drilling |
| 8/11/2008 | 3,115.00  | 21.42    | MWD    | Scientific Drilling |
| 8/11/2008 | 3,179.00  | 21.08    | MWD    | Scientific Drilling |
| 8/11/2008 | 3,242.00  | 20.86    | MWD    | Scientific Drilling |
| 8/11/2008 | 3,306.00  | 20.38    | MWD    | Scientific Drilling |
| 8/11/2008 | 3,369.00  | 20.34    | MWD    | Scientific Drilling |
| 8/11/2008 | 3,433.00  | 19.90    | MWD    | Scientific Drilling |
| 8/11/2008 | 3,497.00  | 19.28    | MWD    | Scientific Drilling |
| 8/11/2008 | 3,561.00  | 19.79    | MWD    | Scientific Drilling |
| 8/12/2008 | 3,625.00  | 20.71    | MWD    | Scientific Drilling |
| 8/12/2008 | 3,688.00  | 21.00    | MWD    | Scientific Drilling |
| 8/12/2008 | 3,751.00  | 20.98    | MWD    | Scientific Drilling |
| 8/12/2008 | 3,815.00  | 20.84    | MWD    | Scientific Drilling |
| 8/12/2008 | 3,879.00  | 19.92    | MWD    | Scientific Drilling |
| 8/12/2008 | 3,943.00  | 18.54    | MWD    | Scientific Drilling |
| 8/12/2008 | 4,006.00  | 17.48    | MWD    | Scientific Drilling |
| 8/12/2008 | 4,069.00  | 16.90    | MWD    | Scientific Drilling |
| 8/12/2008 | 4,133.00  | 17.05    | MWD    | Scientific Drilling |
| 8/12/2008 | 4,197.00  | 18.63    | MWD    | Scientific Drilling |
| 8/12/2008 | 4,261.00  | 21.01    | MWD    | Scientific Drilling |
| 8/12/2008 | 4,293.00  | 21.21    | MWD    | Scientific Drilling |
| 8/12/2008 | 4,325.00  | 21.16    | MWD    | Scientific Drilling |
| 8/12/2008 | 4,388.00  | 20.18    | MWD    | Scientific Drilling |
| 8/12/2008 | 4,452.00  | 17.97    | MWD    | Scientific Drilling |
| 8/12/2008 | 4,515.00  | 14.77    | MWD    | Scientific Drilling |
| 8/12/2008 | 4,579.00  | 12.02    | MWD    | Scientific Drilling |
| 8/12/2008 | 4,642.00  | 10.27    | MWD    | Scientific Drilling |
| 8/12/2008 | 4,705.00  | 9.11     | MWD    | Scientific Drilling |
| 8/12/2008 | 4,768.00  | 7.80     | MWD    | Scientific Drilling |

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 Aug 3, 2009

  
 Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2010

Survey Data

| Date      | MD (ftKB) | Incl' (°) | Method | Survey Company      |
|-----------|-----------|-----------|--------|---------------------|
| 8/12/2008 | 4,831.00  | 6.62      | MWD    | Scientific Drilling |
| 8/12/2008 | 4,894.00  | 6.25      | MWD    | Scientific Drilling |
| 8/12/2008 | 4,958.00  | 5.18      | MWD    | Scientific Drilling |
| 8/12/2008 | 5,021.00  | 4.47      | MWD    | Scientific Drilling |
| 8/12/2008 | 5,034.00  | 4.22      | MWD    | Scientific Drilling |
| 8/12/2008 | 5,085.00  | 3.24      | MWD    | Scientific Drilling |
| 8/23/2008 | 5,408.00  | 1.00      | TEL    | H&P                 |
| 8/24/2008 | 5,800.00  | 1.00      | TEL    | H&P                 |
| 8/26/2008 | 6,425.00  | 3.00      | TOTCO  | H&P                 |
| 8/26/2008 | 6,579.00  | 3.00      | TOTCO  | H&P                 |
| 8/26/2008 | 6,800.00  | 3.00      | TOTCO  | H&P                 |
| 8/27/2008 | 7,023.00  | 1.75      | TOTCO  | H&P                 |
| 8/27/2008 | 7,213.00  | 2.25      | TOTCO  | H&P                 |
| 8/27/2008 | 7,403.00  | 1.50      | TOTCO  | H&P                 |
| 8/27/2008 | 7,690.00  | 1.75      | TOTCO  | H&P                 |
| 8/27/2008 | 8,198.00  | 2.00      | TOTCO  | H&P                 |
| 9/2/2008  | 8,639.00  | 2.50      | TOTCO  | H&P                 |

RCVD AUG 11 '09

OIL CONS. DIV.

DIST. 3

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.

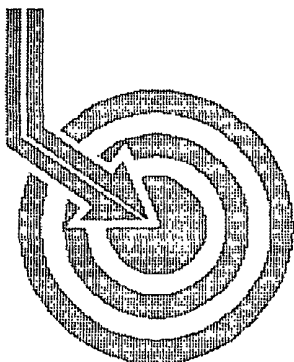
*[Signature]*

Subscribed and sworn to me this Aug 3, 2009

*[Signature]*

Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2010



# Scientific Drilling

RCVD AUG 11 '09

## BURLINGTON RESOURCES

OIL CONS. DIV.

DIST. 3

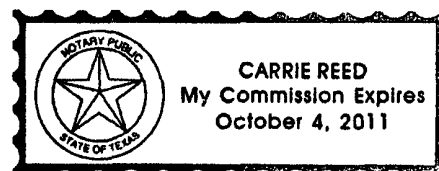
Field: San Juan  
Site: Rio Arriba County, NM  
Well: San Juan 27-4 #141M  
Wellpath: DH - Job #33D0808176  
Survey: 08/10/08-08/15/08

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

.....*Wharton*..... Company Representative

Notorized this date 26th of August, 2008.

*Carrie Reed*  
Notary Signature  
County of Midland  
State of Texas





# Scientific Drilling International Survey Report

Company: BURLINGTON RESOURCES  
Field: San Juan  
Site: Rio Arriba County, NM  
Well: San Juan 27-4 #141M  
Wellpath: DH - Job #33D0808176

Date: 08/26/2008 Time: 15:29:55 Page: 1  
Co-ordinate(NE) Reference: Site: Rio Arriba County, NM, True North  
Vertical (TVD) Reference: SITE 0.0  
Section (VS) Reference: Well (0.00N,0.00E,89.40Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 08/10/08-08/15/08 Start Date: 08/10/2008  
E-field d0'-5085'  
Company: Scientific Drilling Internatio Engineer: Rasmussen/Lockard/Alvarez/Flow  
Tool: E-field;E-field Tied-to: From Surface

## Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | N/S<br>ft | E/W<br>ft | DLS<br>deg/100ft | ClsD<br>ft | ClsA<br>deg |
|----------|-------------|-------------|-----------|----------|-----------|-----------|------------------|------------|-------------|
| 0.00     | 0.00        | 0.00        | 0.00      | 0.00     | 0.00      | 0.00      | 0.00             | 0.00       | 0.00        |
| 366.00   | 1.31        | 79.97       | 365.97    | 4.13     | 0.73      | 4.12      | 0.36             | 4.18       | 79.97       |
| 396.00   | 1.68        | 67.55       | 395.96    | 4.87     | 0.96      | 4.86      | 1.63             | 4.96       | 78.88       |
| 427.00   | 2.33        | 84.67       | 426.94    | 5.92     | 1.19      | 5.91      | 2.83             | 6.03       | 78.63       |
| 458.00   | 3.43        | 82.67       | 457.90    | 7.47     | 1.37      | 7.46      | 3.56             | 7.58       | 79.63       |
| 489.00   | 4.06        | 90.66       | 488.83    | 9.49     | 1.47      | 9.48      | 2.63             | 9.59       | 81.18       |
| 520.00   | 5.04        | 88.02       | 519.74    | 11.95    | 1.51      | 11.93     | 3.23             | 12.03      | 82.81       |
| 582.00   | 5.77        | 90.93       | 581.46    | 17.79    | 1.55      | 17.77     | 1.26             | 17.84      | 85.02       |
| 646.00   | 5.98        | 94.23       | 645.12    | 24.33    | 1.25      | 24.31     | 0.62             | 24.35      | 87.06       |
| 705.00   | 7.23        | 88.71       | 703.73    | 31.10    | 1.11      | 31.09     | 2.37             | 31.11      | 87.96       |
| 766.00   | 7.80        | 91.00       | 764.21    | 39.08    | 1.12      | 39.07     | 1.06             | 39.08      | 88.36       |
| 829.00   | 8.81        | 90.19       | 826.55    | 48.17    | 1.03      | 48.17     | 1.61             | 48.18      | 88.77       |
| 893.00   | 10.19       | 91.38       | 889.67    | 58.73    | 0.88      | 58.73     | 2.18             | 58.73      | 89.14       |
| 957.00   | 10.82       | 94.01       | 952.59    | 70.38    | 0.32      | 70.38     | 1.24             | 70.38      | 89.74       |
| 1021.00  | 11.83       | 91.72       | 1015.35   | 82.92    | -0.29     | 82.93     | 1.73             | 82.93      | 90.20       |
| 1084.00  | 12.36       | 92.26       | 1076.95   | 96.11    | -0.75     | 96.12     | 0.86             | 96.12      | 90.45       |
| 1148.00  | 13.65       | 90.71       | 1139.31   | 110.50   | -1.12     | 110.52    | 2.09             | 110.52     | 90.58       |
| 1210.00  | 14.91       | 91.21       | 1199.39   | 125.79   | -1.38     | 125.81    | 2.04             | 125.82     | 90.63       |
| 1274.00  | 16.63       | 90.26       | 1260.98   | 143.18   | -1.59     | 143.20    | 2.72             | 143.21     | 90.64       |
| 1338.00  | 18.12       | 89.84       | 1322.06   | 162.29   | -1.61     | 162.31    | 2.34             | 162.32     | 90.57       |
| 1401.00  | 19.12       | 89.99       | 1381.76   | 182.40   | -1.58     | 182.43    | 1.59             | 182.43     | 90.50       |
| 1464.00  | 20.32       | 90.78       | 1441.06   | 203.65   | -1.72     | 203.68    | 1.95             | 203.69     | 90.49       |
| 1527.00  | 20.49       | 90.47       | 1500.11   | 225.61   | -1.96     | 225.65    | 0.32             | 225.65     | 90.50       |
| 1655.00  | 19.84       | 91.02       | 1620.26   | 269.73   | -2.53     | 269.77    | 0.53             | 269.78     | 90.54       |
| 1846.00  | 20.13       | 90.92       | 1799.76   | 334.98   | -3.64     | 335.04    | 0.15             | 335.06     | 90.62       |
| 1909.00  | 19.35       | 91.48       | 1859.06   | 356.25   | -4.08     | 356.31    | 1.27             | 356.33     | 90.66       |
| 1973.00  | 18.87       | 89.45       | 1919.53   | 377.19   | -4.26     | 377.26    | 1.28             | 377.28     | 90.65       |
| 2036.00  | 19.26       | 89.55       | 1979.08   | 397.77   | -4.08     | 397.84    | 0.62             | 397.86     | 90.59       |
| 2099.00  | 19.16       | 88.60       | 2038.57   | 418.50   | -3.74     | 418.56    | 0.52             | 418.58     | 90.51       |
| 2163.00  | 19.03       | 89.86       | 2099.05   | 439.43   | -3.46     | 439.49    | 0.68             | 439.51     | 90.45       |
| 2226.00  | 19.41       | 88.59       | 2158.54   | 460.17   | -3.18     | 460.23    | 0.90             | 460.24     | 90.40       |
| 2290.00  | 19.41       | 88.36       | 2218.90   | 481.44   | -2.61     | 481.49    | 0.12             | 481.50     | 90.31       |
| 2353.00  | 19.16       | 88.69       | 2278.36   | 502.24   | -2.08     | 502.29    | 0.43             | 502.30     | 90.24       |
| 2416.00  | 19.08       | 88.22       | 2337.89   | 522.88   | -1.52     | 522.92    | 0.28             | 522.92     | 90.17       |
| 2480.00  | 18.08       | 89.23       | 2398.55   | 543.26   | -1.06     | 543.31    | 1.64             | 543.31     | 90.11       |
| 2544.00  | 18.88       | 88.90       | 2459.25   | 563.55   | -0.73     | 563.59    | 1.26             | 563.59     | 90.07       |
| 2606.00  | 20.18       | 88.79       | 2517.68   | 584.28   | -0.31     | 584.31    | 2.10             | 584.31     | 90.03       |
| 2669.00  | 20.47       | 88.47       | 2576.76   | 606.16   | 0.21      | 606.19    | 0.49             | 606.19     | 89.98       |
| 2733.00  | 20.05       | 88.30       | 2636.80   | 628.31   | 0.84      | 628.34    | 0.66             | 628.34     | 89.92       |
| 2797.00  | 19.67       | 87.11       | 2696.99   | 650.05   | 1.70      | 650.06    | 0.87             | 650.07     | 89.85       |
| 2860.00  | 19.66       | 89.58       | 2756.32   | 671.24   | 2.32      | 671.25    | 1.32             | 671.26     | 89.80       |
| 2925.00  | 19.61       | 89.48       | 2817.54   | 693.08   | 2.50      | 693.09    | 0.09             | 693.10     | 89.79       |
| 2988.00  | 19.70       | 90.94       | 2876.87   | 714.27   | 2.42      | 714.28    | 0.79             | 714.29     | 89.81       |
| 3052.00  | 20.97       | 91.58       | 2936.88   | 736.50   | 1.93      | 736.52    | 2.01             | 736.52     | 89.85       |
| 3115.00  | 21.42       | 92.28       | 2995.62   | 759.25   | 1.16      | 759.28    | 0.82             | 759.28     | 89.91       |
| 3179.00  | 21.08       | 91.53       | 3055.27   | 782.42   | 0.38      | 782.46    | 0.68             | 782.46     | 89.97       |
| 3242.00  | 20.86       | 91.07       | 3114.09   | 804.96   | -0.13     | 805.00    | 0.44             | 805.00     | 90.01       |
| 3306.00  | 20.35       | 92.17       | 3174.00   | 827.46   | -0.76     | 827.52    | 1.00             | 827.52     | 90.05       |
| 3369.00  | 20.34       | 91.45       | 3233.07   | 849.35   | -1.45     | 849.41    | 0.40             | 849.41     | 90.10       |



# Scientific Drilling International

## Survey Report

Company: BURLINGTON RESOURCES  
 Field: San Juan  
 Site: Rio Arriba County, NM  
 Well: San Juan 27-4 #141M  
 Wellpath: DH - Job #33D0808176

Date: 08/26/2008 Time: 15:29:55 Page: 2  
 Co-ordinate(NE) Reference: Site: Rio Arriba County, NM, True North  
 Vertical (TVD) Reference: SITE 0.0  
 Section (VS) Reference: Well (0.00N,0.00E,89.40Azi)  
 Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | N/S<br>ft | E/W<br>ft | DLS<br>deg/100ft | ClsD<br>ft | ClsA<br>deg |
|----------|-------------|-------------|-----------|----------|-----------|-----------|------------------|------------|-------------|
| 3433.00  | 19.90       | 92.04       | 3293.16   | 871.34   | -2.12     | 871.41    | 0.76             | 871.42     | 90.14       |
| 3497.00  | 19.28       | 92.49       | 3353.46   | 892.77   | -2.97     | 892.85    | 1.00             | 892.86     | 90.19       |
| 3561.00  | 19.79       | 90.50       | 3413.78   | 914.16   | -3.52     | 914.24    | 1.31             | 914.25     | 90.22       |
| 3625.00  | 20.71       | 88.88       | 3473.82   | 936.31   | -3.40     | 936.39    | 1.68             | 936.40     | 90.21       |
| 3688.00  | 21.05       | 88.12       | 3532.68   | 958.76   | -2.81     | 958.84    | 0.69             | 958.84     | 90.17       |
| 3751.00  | 20.98       | 87.82       | 3591.49   | 981.34   | -2.01     | 981.42    | 0.20             | 981.42     | 90.12       |
| 3813.00  | 20.84       | 87.51       | 3649.41   | 1003.46  | -1.11     | 1003.53   | 0.29             | 1003.53    | 90.06       |
| 3876.00  | 19.96       | 87.82       | 3708.46   | 1025.41  | -0.21     | 1025.47   | 1.41             | 1025.47    | 90.01       |
| 3943.00  | 18.54       | 85.95       | 3771.71   | 1047.47  | 0.98      | 1047.52   | 2.31             | 1047.52    | 89.95       |
| 4006.00  | 17.48       | 88.21       | 3831.62   | 1066.93  | 1.98      | 1066.97   | 2.01             | 1066.97    | 89.89       |
| 4069.00  | 16.90       | 91.12       | 3891.81   | 1085.55  | 2.10      | 1085.58   | 1.65             | 1085.59    | 89.89       |
| 4133.00  | 17.05       | 92.11       | 3953.02   | 1104.22  | 1.57      | 1104.26   | 0.51             | 1104.26    | 89.92       |
| 4197.00  | 18.63       | 93.06       | 4013.94   | 1123.79  | 0.68      | 1123.85   | 2.51             | 1123.85    | 89.97       |
| 4261.00  | 21.01       | 94.44       | 4074.15   | 1145.43  | -0.76     | 1145.50   | 3.79             | 1145.50    | 90.04       |
| 4325.00  | 21.16       | 94.18       | 4133.86   | 1168.37  | -2.49     | 1168.46   | 0.28             | 1168.46    | 90.12       |
| 4388.00  | 20.18       | 92.59       | 4192.81   | 1190.55  | -3.81     | 1190.65   | 1.79             | 1190.66    | 90.18       |
| 4452.00  | 17.97       | 91.16       | 4253.29   | 1211.44  | -4.50     | 1211.55   | 3.53             | 1211.56    | 90.21       |
| 4515.00  | 14.77       | 92.28       | 4313.73   | 1229.18  | -5.02     | 1229.30   | 5.10             | 1229.31    | 90.23       |
| 4579.00  | 12.02       | 94.12       | 4375.98   | 1243.97  | -5.82     | 1244.10   | 4.35             | 1244.11    | 90.27       |
| 4642.00  | 10.27       | 92.87       | 4437.79   | 1256.11  | -6.58     | 1256.25   | 2.80             | 1256.27    | 90.30       |
| 4705.00  | 9.11        | 93.48       | 4499.89   | 1266.70  | -7.16     | 1266.84   | 1.85             | 1266.86    | 90.32       |
| 4768.00  | 7.80        | 88.42       | 4562.21   | 1275.95  | -7.35     | 1276.09   | 2.39             | 1276.11    | 90.33       |
| 4831.00  | 6.62        | 87.50       | 4624.71   | 1283.85  | -7.07     | 1283.99   | 1.88             | 1284.01    | 90.32       |
| 4894.00  | 6.25        | 84.67       | 4687.31   | 1290.90  | -6.59     | 1291.04   | 0.77             | 1291.05    | 90.29       |
| 4958.00  | 5.18        | 84.04       | 4750.99   | 1297.25  | -5.97     | 1297.38   | 1.67             | 1297.39    | 90.26       |
| 5021.00  | 4.47        | 77.74       | 4813.77   | 1302.48  | -5.15     | 1302.61   | 1.40             | 1302.62    | 90.23       |
| 5034.00  | 4.22        | 74.64       | 4826.73   | 1303.44  | -4.92     | 1303.56   | 2.64             | 1303.57    | 90.22       |
| 5085.00  | 3.24        | 62.48       | 4877.62   | 1306.54  | -3.75     | 1306.65   | 2.46             | 1306.66    | 90.16       |



Scientific  
Drilling

Field: San Juan  
Site: Rio Arriba County, NM  
Well: San Juan 27-4 #141M  
Wellpath: DH - Job #33D0808176  
Survey: 08/10/08-08/15/08



Azimuths to True North  
Magnetic North: 0.00°

Magnetic Field  
Strength: 0nT  
Dip Angle: 0.00°  
Date: 08/25/2008  
Model: igrf2000

