

## 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 - 7 Copies

Fee Lease - 3 Copies

"AS DRILLED PLAT"

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                         |  |                                                                         |  |                                                           |                                |
|-----------------------------------------|--|-------------------------------------------------------------------------|--|-----------------------------------------------------------|--------------------------------|
| <sup>1</sup> API Number<br>30-045-34957 |  | <sup>2</sup> Pool Code<br>71599 / 72319                                 |  | <sup>3</sup> Pool Name<br>BASIN DAKOTA / BLANCO MESAVERDE |                                |
| <sup>4</sup> Property Code<br>6864      |  | <sup>5</sup> Property Name<br>BRUINGTON                                 |  |                                                           | <sup>6</sup> Well Number<br>1B |
| <sup>7</sup> OGRID No.<br>14538         |  | <sup>8</sup> Operator Name<br>BURLINGTON RESOURCES OIL & GAS COMPANY LP |  |                                                           | <sup>9</sup> Elevation<br>5774 |

<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   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| C             | 25      | 31-N     | 11-W  |         | 977           | NORTH            | 1777          | WEST           | SAN JUAN |

<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   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| C             | 25      | 31-N     | 11-W  | C       | 1186          | NORTH            | 2577          | WEST           | SAN JUAN |

|                                         |                               |                                  |                         |
|-----------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>320.00 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-----------------------------------------|-------------------------------|----------------------------------|-------------------------|

RCVD MAY 4 '10

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

DIST. 3

5/14/10

|                                                                                                                             |     |                                        |
|-----------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------|
| BLM 1953<br>N 89°29'10" W<br>N 89°35' W<br>2639.4' (N)<br>2638.3' (R)                                                       | 977 | 5366.6' (W)<br>5368.4' (R)<br>BLM 1953 |
| 1777                                                                                                                        |     |                                        |
| 2577'                                                                                                                       |     |                                        |
| N/2 DEDICATED<br>ACREAGE<br>MULTIPLE FEE LEASES<br>SECTION 25,<br>T-31-N, R-11-W                                            |     | USA<br>SF-078097-A                     |
| N 0°45'18" E<br>N 0°39' E<br>BLM 1953                                                                                       |     |                                        |
| WELL FLAG<br>NAD 83<br>LAT: 36.874195° N<br>LONG: 107.945262° W<br>NAD 27<br>LAT: 36°52.451514' N<br>LONG: 107°56.678429' W |     |                                        |

S 75°42'06" E  
830.6'

<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* 4/30/2010  
Signature

Crystal Tafaya  
Printed Name

Regulatory Technician  
Title and E-mail Address

April 30th, 2010  
Date

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: 11/8/08

Signature and Seal of Professional Surveyor:





# COP Deviation Report

## BRUINGTON #1B

|                                                          |                                 |                         |                           |                              |
|----------------------------------------------------------|---------------------------------|-------------------------|---------------------------|------------------------------|
| Operator<br>BURLINGTON RESOURCES OIL &<br>GAS COMPANY LP | Legal WellName<br>BRUINGTON #1B | API / UWI<br>3004534957 | County<br>SAN JUAN        | State/Province<br>NEW MEXICO |
| Surface Legal Location<br>025-031N-011W-C                | N/S Dist (ft)<br>977.00         | N/S Ref<br>FNL          | E/W Dist (ft)<br>1,777.00 | E/W Ref<br>FWL               |

| Survey Data |           |          |            |                |
|-------------|-----------|----------|------------|----------------|
| Date        | MD (ftKB) | Incl (°) | Method     | Survey Company |
| 1/10/2010   | 245.00    | 2 02     | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 271.00    | 2.11     | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 302.00    | 2.64     | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 333.00    | 3.61     | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 363.00    | 4.40     | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 394.00    | 5 63     | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 425.00    | 7 21     | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 456.00    | 8.97     | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 487.00    | 10.64    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 518.00    | 12 05    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 549.00    | 13 28    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 580.00    | 14 16    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 611.00    | 14.86    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 641.00    | 15.65    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 672.00    | 15 92    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 703.00    | 16.18    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 734.00    | 16.53    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 764.00    | 17.15    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 795.00    | 17.41    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 826.00    | 18 11    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 857.00    | 19.17    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 888.00    | 20 14    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 919.00    | 21.10    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 950.00    | 22.07    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 981.00    | 22.69    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 1,011.00  | 22.77    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 1,077.00  | 24 01    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 1,141.00  | 24 27    | IncAzi-MWD | Pathfinder     |
| 1/10/2010   | 1,204.00  | 24.45    | IncAzi-MWD | Pathfinder     |
| 1/11/2010   | 1,267.00  | 23.92    | IncAzi-MWD | Pathfinder     |
| 1/11/2010   | 1,330.00  | 23.92    | IncAzi-MWD | Pathfinder     |
| 1/11/2010   | 1,393.00  | 24.09    | IncAzi-MWD | Pathfinder     |
| 1/11/2010   | 1,457.00  | 24.27    | IncAzi-MWD | Pathfinder     |
| 1/11/2010   | 1,520.00  | 24.01    | IncAzi-MWD | Pathfinder     |
| 1/11/2010   | 1,583.00  | 24.18    | IncAzi-MWD | Pathfinder     |

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

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

Notary Public in and for San Juan County, New Mexico

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

### Survey Data

| Date      | MD (RKB) | Incl (°) | Method     | Survey Company |
|-----------|----------|----------|------------|----------------|
| 1/11/2010 | 1,646.00 | 24 01    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 1,710.00 | 24.09    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 1,773.00 | 23.83    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 1,836.00 | 24 36    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 1,900.00 | 24.45    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 1,963.00 | 24.71    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,025.00 | 24.53    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,088.00 | 24 01    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,151.00 | 23.30    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,182.00 | 23.04    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,214.00 | 22.86    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,246.00 | 22 60    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,277.00 | 21.54    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,308.00 | 20.22    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,340.00 | 18 47    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,372.00 | 17.32    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,435.00 | 16.44    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,498.00 | 16.00    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,529.00 | 15.74    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,593.00 | 13.45    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,656.00 | 11.70    | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,719.00 | 9.85     | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,782.00 | 7 56     | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,845.00 | 5.36     | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,907.00 | 3.43     | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 2,970.00 | 1.32     | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 3,033.00 | 0 53     | IncAzi-MWD | Pathfinder     |
| 1/11/2010 | 3,096.00 | 0.26     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 3,159.00 | 0.09     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 3,222.00 | 0.18     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 3,285.00 | 0.26     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 3,348.00 | 0.18     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 3,411.00 | 0 35     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 3,474.00 | 0.44     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 3,537.00 | 0.35     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 3,600.00 | 0.53     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 3,663.00 | 0.44     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 3,757.00 | 0.44     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 3,852.00 | 0.53     | IncAzi-MWD | Pathfinder     |

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

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

Notary Public in and for San Juan County, New Mexico

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

Survey Data

| Date      | MD (ftKB) | Incl (°) | Method     | Survey Company |
|-----------|-----------|----------|------------|----------------|
| 1/12/2010 | 3,946.00  | 0.53     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 4,041.00  | 0.53     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 4,135.00  | 0.53     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 4,262.00  | 0.81     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 4,388.00  | 0.93     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 4,451.00  | 0.82     | IncAzi-MWD | Pathfinder     |
| 1/12/2010 | 4,596.00  | 0.82     | IncAzi-MWD | Pathfinder     |
| 1/27/2010 | 7,086.00  | 1.00     | Inc-WL     | PHOENIX        |

RCVD MAY 4 '10  
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.

Todd DeLamater

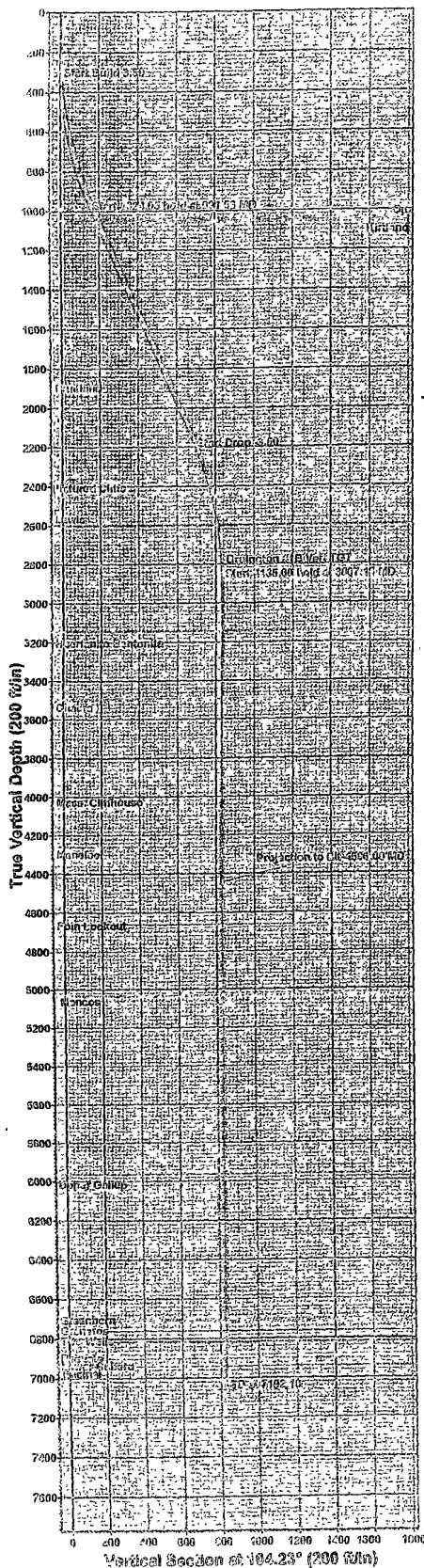
Subscribed and sworn to me this April 30, 2010

Ernesto L. Tapia  
Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2010

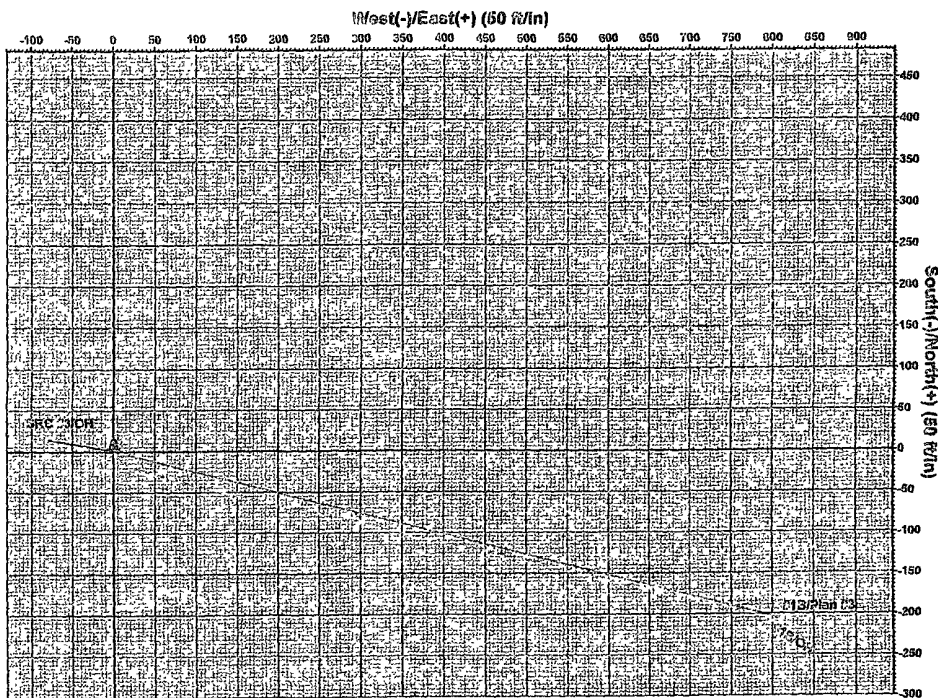


Adjusted to True North  
Magnetic North 10.15°  
Magnetic Field  
Strength 510.3 Gauss  
Dip Angle 65.92°  
Date 12/23/2008  
Model BCGM 2009



| WELL DETAILS: 118                         |      |             |            |                  |                   |      |
|-------------------------------------------|------|-------------|------------|------------------|-------------------|------|
| Ground Elevation: 5774.00                 |      |             |            |                  |                   |      |
| RAW Elevation: WELL @ 5790.00 ft (HP Rig) |      |             |            |                  |                   |      |
| Rig Name: HP Rig                          |      |             |            |                  |                   |      |
| W/S                                       | E/W  | Northing    | Easting    | Latitude         | Longitude         | Slot |
| 0.00                                      | 0.00 | 2137107.423 | 667343.126 | 35° 52' 27.991 N | 107° 53' 49.708 W |      |

| SECTION DETAILS |         |       |        |         |         |        |      |        |        |                       |
|-----------------|---------|-------|--------|---------|---------|--------|------|--------|--------|-----------------------|
| Sec             | MD      | Inc   | Azi    | TVD     | W/S     | E/W    | DLeg | TFace  | VSec   | Target                |
| 1               | 0.00    | 0.00  | 0.00   | 0.00    | 0.00    | 0.00   | 0.00 | 0.00   | 0.00   |                       |
| 2               | 300.00  | 0.00  | 0.00   | 300.00  | 0.00    | 0.00   | 0.00 | 0.00   | 0.00   |                       |
| 3               | 691.98  | 24.20 | 104.23 | 671.17  | -35.36  | 139.50 | 3.50 | 104.23 | 143.92 |                       |
| 4               | 2315.61 | 24.20 | 104.23 | 2179.03 | -186.02 | 685.70 | 0.00 | 0.00   | 603.77 |                       |
| 5               | 3007.18 | 0.00  | 0.00   | 2050.00 | -204.20 | 605.20 | 3.50 | 180.00 | 030.69 | Brington #1B Vert TG1 |
| 6               | 7192.18 | 0.00  | 0.00   | 7035.00 | -204.20 | 605.20 | 0.00 | 0.00   | 630.69 |                       |





## ConocoPhillips

San Juan County, NM

Brington

#1B

S-Well

Survey: OH

## Pathfinder X & Y Survey Report

13 January, 2010

# PATHFINDER



# Pathfinder Energy Services

## Pathfinder X & Y Survey Report



Company: ConocoPhillips  
Project: San Juan County, NM  
Site: Bruington  
Well: #1B  
Wellbore: S-Well  
Design: S-Well

Local Co-ordinate Reference: Well #1B  
TVD Reference: WELL @ 5790.00ft (HP Rig)  
MD Reference: WELL @ 5790.00ft (HP Rig)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: Midland Database

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | San Juan County, NM                  |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico West 3003                 |               |                |

|                       |           |                   |                   |
|-----------------------|-----------|-------------------|-------------------|
| Site                  | Bruington |                   |                   |
| Site Position:        |           | Northing:         | 2,137,487.423 ft  |
| From:                 | Lat/Long  | Easting:          | 467,443.120 ft    |
| Position Uncertainty: | 0.00 ft   | Slot Radius:      | "                 |
|                       |           | Latitude:         | 36° 52' 27.091 N  |
|                       |           | Longitude:        | 107° 56' 40.706 W |
|                       |           | Grid Convergence: | -0.07 °           |

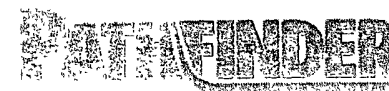
|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | S-Well     |             |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | BGGM2009   | 12/28/2009  | 10.16           | 63.62         | 51,048              |

|                   |                          |               |               |                  |      |
|-------------------|--------------------------|---------------|---------------|------------------|------|
| Design            | S-Well                   |               |               |                  |      |
| Audit Notes:      |                          |               |               |                  |      |
| Version:          | 1.0                      | Phase:        | ACTUAL        | Tie On Depth:    | 0.00 |
| Vertical Section: | Depth From (TVD)<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Direction<br>(°) |      |
|                   | 0.00                     | 0.00          | 0.00          | 104.76           |      |

|                |                 |                   |           |                |  |
|----------------|-----------------|-------------------|-----------|----------------|--|
| Survey Program | Date 01/13/2010 |                   |           |                |  |
| From (ft)      | To (ft)         | Survey (Wellbore) | Tool Name | Description    |  |
| 245.00         | 4,596.00        | OH (S-Well)       | MWD       | MWD - Standard |  |



Pathfinder Energy Services  
Pathfinder X & Y Survey Report



Company: ConocoPhillips  
Project: San Juan County, NM  
Site: Bruington  
Well: #1B  
Wellbore: S-Well  
Design: S-Well

Local Co-ordinate Reference: Well #1B  
TVD Reference: WELL @ 5790.00ft (HP Rig)  
MD Reference: WELL @ 5790.00ft (HP Rig)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: Midland Database

| Survey     |            |            |             |               |             |             |                |                   |                  |                 |  |
|------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|--|
| MD<br>(ft) | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |  |
| 0.00       | 0.00       | 0.00       | 0.00        | -5,790.00     | 0.00        | 0.00        | 0.00           | 0.00              | 2,137,487.42     | 467,443.12      |  |
| 245.00     | 2.02       | 158.47     | 244.95      | -5,545.05     | -4.02       | 1.58        | 2.56           | 0.82              | 2,137,483.40     | 467,444.70      |  |
| 271.00     | 2.11       | 160.87     | 270.93      | -5,519.07     | -4.90       | 1.91        | 3.09           | 0.48              | 2,137,482.53     | 467,445.02      |  |
| 302.00     | 2.64       | 145.68     | 301.91      | -5,488.09     | -6.02       | 2.50        | 3.95           | 2.64              | 2,137,481.40     | 467,445.61      |  |
| 333.00     | 3.61       | 137.49     | 332.86      | -5,457.14     | -7.33       | 3.56        | 5.31           | 3.44              | 2,137,480.09     | 467,446.67      |  |
| 363.00     | 4.40       | 129.18     | 362.79      | -5,427.21     | -8.76       | 5.09        | 7.15           | 3.26              | 2,137,478.66     | 467,448.20      |  |
| 394.00     | 5.63       | 124.59     | 393.67      | -5,396.33     | -10.37      | 7.27        | 9.67           | 4.17              | 2,137,477.04     | 467,450.37      |  |
| 425.00     | 7.21       | 117.26     | 424.47      | -5,365.53     | -12.13      | 10.25       | 13.00          | 5.73              | 2,137,475.29     | 467,453.35      |  |
| 456.00     | 8.97       | 117.21     | 455.16      | -5,334.84     | -14.12      | 14.13       | 17.26          | 5.68              | 2,137,473.28     | 467,457.23      |  |
| 487.00     | 10.64      | 118.20     | 485.71      | -5,304.29     | -16.58      | 18.80       | 22.40          | 5.41              | 2,137,470.82     | 467,461.90      |  |
| 518.00     | 12.05      | 116.09     | 516.10      | -5,273.90     | -19.36      | 24.23       | 28.36          | 4.74              | 2,137,468.04     | 467,467.32      |  |
| 549.00     | 13.28      | 111.99     | 546.35      | -5,243.65     | -22.11      | 30.43       | 35.06          | 4.91              | 2,137,465.28     | 467,473.53      |  |
| 580.00     | 14.16      | 109.54     | 576.46      | -5,213.54     | -24.71      | 37.31       | 42.37          | 3.40              | 2,137,462.67     | 467,480.40      |  |
| 611.00     | 14.86      | 108.50     | 606.47      | -5,183.53     | -27.24      | 44.65       | 50.12          | 2.41              | 2,137,460.13     | 467,487.74      |  |
| 641.00     | 15.65      | 107.87     | 635.42      | -5,154.58     | -29.71      | 52.15       | 58.00          | 2.69              | 2,137,457.66     | 467,495.24      |  |
| 672.00     | 15.92      | 106.95     | 665.25      | -5,124.75     | -32.23      | 60.20       | 66.42          | 1.19              | 2,137,455.13     | 467,503.28      |  |
| 703.00     | 16.18      | 105.30     | 695.04      | -5,094.96     | -34.61      | 68.43       | 74.99          | 1.69              | 2,137,452.74     | 467,511.51      |  |
| 734.00     | 16.53      | 104.09     | 724.79      | -5,065.21     | -36.82      | 76.87       | 83.72          | 1.58              | 2,137,450.51     | 467,519.9       |  |



Pathfinder Energy Services  
Pathfinder X & Y Survey Report



Company: ConocoPhillips  
Project: San Juan County, NM  
Site: Bruington  
Well: #1B  
Wellbore: S-Well  
Design: S-Well

Local Co-ordinate Reference: Well #1B  
TVD Reference: WELL @ 5790.00ft (HP Rig)  
MD Reference: WELL @ 5790.00ft (HP Rig)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: Midland Database

Survey

| MD<br>(ft) | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |
|------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|
| 1,077.00   | 24.01      | 102.35     | 1,045.94    | -4,744.06     | -63.48      | 193.47      | 203.25         | 1.88              | 2,137,423.72     | 467,836.51      |
| 1,141.00   | 24.27      | 101.98     | 1,104.34    | -4,685.66     | -68.99      | 219.05      | 229.40         | 0.47              | 2,137,418.18     | 467,862.09      |
| 1,204.00   | 24.45      | 101.59     | 1,161.73    | -4,628.27     | -74.30      | 244.49      | 255.35         | 0.38              | 2,137,412.84     | 467,887.52      |
| 1,267.00   | 23.92      | 103.96     | 1,219.21    | -4,570.79     | -80.00      | 269.66      | 281.14         | 1.76              | 2,137,407.11     | 467,712.63      |
| 1,330.00   | 23.92      | 103.77     | 1,276.79    | -4,513.21     | -86.12      | 294.46      | 306.68         | 0.12              | 2,137,400.96     | 467,737.48      |
| 1,393.00   | 24.09      | 103.75     | 1,334.35    | -4,455.65     | -92.22      | 319.35      | 332.31         | 0.27              | 2,137,394.83     | 467,762.36      |
| 1,457.00   | 24.27      | 103.23     | 1,392.73    | -4,397.27     | -98.33      | 344.84      | 358.51         | 0.44              | 2,137,388.69     | 467,787.85      |
| 1,520.00   | 24.01      | 103.22     | 1,450.22    | -4,339.78     | -104.23     | 369.92      | 384.27         | 0.41              | 2,137,382.77     | 467,812.92      |
| 1,583.00   | 24.18      | 102.76     | 1,507.73    | -4,282.27     | -110.01     | 394.99      | 409.98         | 0.40              | 2,137,376.96     | 467,837.98      |
| 1,646.00   | 24.01      | 102.50     | 1,565.24    | -4,224.76     | -115.63     | 420.08      | 435.68         | 0.32              | 2,137,371.30     | 467,863.07      |
| 1,710.00   | 24.09      | 102.36     | 1,623.69    | -4,166.31     | -121.24     | 445.55      | 461.74         | 0.15              | 2,137,365.66     | 467,888.53      |
| 1,773.00   | 23.83      | 101.29     | 1,681.26    | -4,108.74     | -126.49     | 470.59      | 487.29         | 0.80              | 2,137,360.39     | 467,913.57      |
| 1,836.00   | 24.36      | 103.70     | 1,738.77    | -4,051.23     | -132.06     | 495.70      | 512.99         | 1.77              | 2,137,354.79     | 467,938.66      |
| 1,900.00   | 24.45      | 104.34     | 1,797.05    | -3,992.95     | -138.46     | 521.35      | 539.43         | 0.44              | 2,137,348.35     | 467,964.31      |
| 1,963.00   | 24.71      | 104.84     | 1,854.34    | -3,935.66     | -145.06     | 546.71      | 565.63         | 0.53              | 2,137,341.72     | 467,989.66      |
| 2,025.00   | 24.53      | 104.29     | 1,910.71    | -3,879.29     | -151.56     | 571.71      | 591.46         | 0.47              | 2,137,335.20     | 468,014.66      |
| 2,083.00   | 24.01      | 102.97     | 1,968.14    | -3,821.86     | -157.67     | 596.88      | 617.35         | 1.19              | 2,137,329.06     | 468,039.81      |
| 2,151.00   | 23.30      | 102.11     | 2,025.84    | -3,764.16     | -163.16     | 621.55      | 642.61         | 1.25              | 2,137,323.54     | 468,054.48      |
| 2,182.00   | 23.04      | 102.56     | 2,054.34    | -3,735.66     | -165.76     | 633.47      | 654.79         | 1.01              | 2,137,320.92     | 468,076.39      |
| 2,214.00   | 22.86      | 102.16     | 2,083.81    | -3,706.19     | -168.43     | 645.65      | 667.26         | 0.74</            |                  |                 |



Pathfinder Energy Services  
Pathfinder X & Y Survey Report



Company: ConocoPhillips  
Project: San Juan County, NM  
Site: Bruington  
Well: #1B  
Wellbore: S-Well  
Design: S-Well

Local Co-ordinate Reference: Well #1B  
TVD Reference: WELL @ 5790.00ft (HP Rig)  
MD Reference: WELL @ 5790.00ft (HP Rig)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: Midland Database

| Survey     |            |            |             |               |             |             |                |                   |                  |                 |  |
|------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|--|
| MD<br>(ft) | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |  |
| 2,529.00   | 15.74      | 102.60     | 2,382.26    | -3,407.74     | -190.49     | 743.04      | 767.05         | 0.86              | 2,137,296.07     | 468,185.94      |  |
| 2,592.00   | 13.45      | 101.62     | 2,444.19    | -3,345.81     | -193.88     | 758.81      | 783.16         | 3.60              | 2,137,292.66     | 468,201.70      |  |
| 2,656.00   | 11.70      | 102.58     | 2,505.67    | -3,284.33     | -196.75     | 772.22      | 796.86         | 2.80              | 2,137,289.78     | 468,215.11      |  |
| 2,719.00   | 9.85       | 100.74     | 2,567.56    | -3,222.44     | -199.14     | 783.75      | 808.62         | 2.99              | 2,137,287.37     | 468,226.64      |  |
| 2,782.00   | 7.56       | 99.78      | 2,629.83    | -3,160.17     | -200.85     | 793.13      | 818.13         | 3.64              | 2,137,285.65     | 468,236.01      |  |
| 2,845.00   | 5.36       | 104.52     | 2,692.43    | -3,097.57     | -202.29     | 800.06      | 825.20         | 3.59              | 2,137,284.20     | 468,242.95      |  |
| 2,907.00   | 3.43       | 101.48     | 2,754.24    | -3,035.76     | -203.39     | 804.68      | 829.95         | 3.13              | 2,137,283.10     | 468,247.57      |  |
| 2,970.00   | 1.32       | 108.27     | 2,817.19    | -2,972.81     | -203.99     | 807.22      | 832.55         | 3.37              | 2,137,282.49     | 468,250.10      |  |
| 3,033.00   | 0.53       | 121.45     | 2,880.18    | -2,909.82     | -204.37     | 808.16      | 833.56         | 1.29              | 2,137,282.11     | 468,251.04      |  |
| 3,096.00   | 0.26       | 122.29     | 2,943.17    | -2,846.83     | -204.60     | 808.53      | 833.97         | 0.43              | 2,137,281.88     | 468,251.41      |  |
| 3,159.00   | 0.09       | 118.55     | 3,006.17    | -2,783.83     | -204.70     | 808.69      | 834.16         | 0.27              | 2,137,281.78     | 468,251.57      |  |
| 3,222.00   | 0.18       | 197.11     | 3,069.17    | -2,720.83     | -204.82     | 808.71      | 834.20         | 0.29              | 2,137,281.66     | 468,251.59      |  |
| 3,285.00   | 0.26       | 204.22     | 3,132.17    | -2,657.83     | -205.04     | 808.62      | 834.17         | 0.13              | 2,137,281.44     | 468,251.50      |  |
| 3,348.00   | 0.18       | 272.27     | 3,195.17    | -2,594.83     | -205.17     | 808.46      | 834.05         | 0.40              | 2,137,281.31     | 468,251.34      |  |
| 3,411.00   | 0.35       | 259.46     | 3,258.17    | -2,531.83     | -205.20     | 808.17      | 833.78         | 0.28              | 2,137,281.28     | 468,251.05      |  |
| 3,474.00   | 0.44       | 268.68     | 3,321.17    | -2,468.83     | -205.24     | 807.74      | 833.38         | 0.17              | 2,137,281.24     | 468,250.62      |  |
| 3,537.00   | 0.35       | 261.55     | 3,384.17    | -2,405.83     | -205.27     | 807.31      | 832.97         | 0.16              | 2,137,281.21     | 468,250.19      |  |
| 3,600.00   | 0.53       |            |             |               |             |             |                |                   |                  |                 |  |



Pathfinder Energy Services  
Pathfinder X & Y Survey Report



Company: ConocoPhillips  
Project: San Juan County, NM  
Site: Bruington  
Well: #1B  
Wellbore: S-Well  
Design: S-Well

Local Co-ordinate Reference: Well #1B  
TVD Reference: WELL @ 5790.00ft (HP Rig)  
MD Reference: WELL @ 5790.00ft (HP Rig)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: Midland Database

Survey

| MD<br>(ft) | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |
|------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|
| 4,541.00   | 0.82       | 212.15     | 4,388.11    | -1,401.89     | -209.93     | 799.77      | 826.87         | 0.12              | 2,137,276.56     | 468,242.65      |
| 4,596.00   | 0.82       | 212.15     | 4,443.11    | -1,346.89     | -210.60     | 799.35      | 826.63         | 0.00              | 2,137,275.90     | 468,242.23      |

Projection to Bit-4596.00\*MD,0.82\*INC,212.15\*AZI, 4443.11\*TVD, 826.63\*VS, -210.60\*N, 799.35\*E

Targets

Target Name

| - hit/miss target                                                                          | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Northing<br>(ft) | Easting<br>(ft) | Latitude         | Longitude         |
|--------------------------------------------------------------------------------------------|------------------|-----------------|-------------|---------------|---------------|------------------|-----------------|------------------|-------------------|
| - Shape                                                                                    |                  |                 |             |               |               |                  |                 |                  |                   |
| Bruington #1B Vert TC                                                                      | 0.00             | 0.00            | 2,850.00    | -204.20       | 805.20        | 2,137,282.284    | 468,248.081     | 36° 52' 25.072 N | 107° 56' 30.796 W |
| - survey misses target center by 2.62ft at 3002.78ft MD (2849.96 TVD, -204.21 N, 807.82 E) |                  |                 |             |               |               |                  |                 |                  |                   |
| - Point                                                                                    |                  |                 |             |               |               |                  |                 |                  |                   |

Survey Annotations

| Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates |               | Comment                                                                                       |
|---------------------------|---------------------------|-------------------|---------------|-----------------------------------------------------------------------------------------------|
|                           |                           | +N/-S<br>(ft)     | +E/-W<br>(ft) |                                                                                               |
| 4,596.00                  | 4,443.11                  | -210.60           | 799.35        | Projection to Bit-4596.00*MD,0.82*INC,212.15*AZI, 4443.11*TVD, 826.63*VS, -210.60*N, 799.35*E |

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

PathFinder Energy Services, Inc.  
BHL Report

Page 01/01  
Tie-In Date: 01/08/2010  
Data Completed: 01/13/2010

BURLINGTON RESOURCES OIL & GAS COMPANY LP  
BRUINGTON #1B  
SAN JUAN COUNTY, NM  
Rig: AWS #711  
PathFinder Office Supervisor: TOM SCHMIDT  
PathFinder Field Engineers: JUSTIN HAWKINS  
TIM STACKHOUSE

Survey Horiz. Reference: WELLHEAD  
Ref Coordinates: LAT: 38.52.27.0912 N LON: 107.56.40.7076 W  
GRID Reference: NAD27 new mexico west Transverse Mercator  
Ref GRID Coord: X: 467442.9696 Y: 2137487.4432  
North Aligned To: TRUE NORTH  
Total Magnetic Correction: 10.16° EAST TO TRUE  
Vertical Section Plane: 104.23  
Survey Vert. Reference: 15.00' Rotary Table To Ground  
Altitude: 5774.00' Ground To MSL

|                       |                |             |
|-----------------------|----------------|-------------|
| Measured Depth        | 4596.00        | (feet)      |
| Inclination           | 0.82           | (deg)       |
| Azimuth               | 212.15         | (deg)       |
| True Vertical Depth   | 4443.11        | (feet)      |
| Vertical Section      | 326.59         | (feet)      |
| Survey X cord         | 468242.33      | (feet)      |
| Survey Y cord         | 2137276.78     | (feet)      |
| Survey Lat            | 36.87361586 N  | (deg)       |
| Survey Lon            | 107.94190736 W | (deg)       |
| Rectangular Corr. N/S | 210.60 S       | (feet)      |
| Rectangular Corr. E/W | 799.35 E       | (feet)      |
| Closure Distance      | 826.63         | (feet)      |
| Direction of Closure  | 104.76         | (deg)       |
| Dogleg Severity       | 0.00           | (deg/100ft) |

BRUINGTON #1B

Burlington Resources Oil & Gas Company, LP

Most Recent Job

Jobs

| Job Category | Primary Job Type   | Secondary Job Type | Actual Start Date | End Date  |
|--------------|--------------------|--------------------|-------------------|-----------|
| COMPLETIONS  | INITIAL COMPLETION | INITIAL COMPLETION | 1/26/2010         | 4/28/2010 |

Well Config: DEVIATED - Original Hole, 4/29/2010 9:00:22 AM

