

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  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

REVISED DEC 1/10  
AMENDED REPORT  
OIL CONS. DIV.  
DIST. 3

### WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                    |                                                             |                                                |
|------------------------------------|-------------------------------------------------------------|------------------------------------------------|
| *API Number<br><b>30-039-30828</b> | *Pool Code<br>72319 / 71599                                 | *Pool Name<br>BLANCO MESAVERDE / BASIN, DAKOTA |
| *Property Code<br><b>7469</b>      | *Property Name<br>SAN JUAN -30-6 UNIT                       | *Well Number<br>102N                           |
| *OGRID No.<br>14538                | *Operator Name<br>BURLINGTON RESOURCES OIL & GAS COMPANY LP | *Elevation<br>6465'                            |

#### <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     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| 0             | 22      | 30N      | 6W    |         | 980           | SOUTH            | 2230          | EAST           | 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     |
|-----------------------------------------------------------------------------------|---------|----------|-------|---------|-------------------------------|----------------------------------|-------------------------|----------------|------------|
| P                                                                                 | 22      | 30N      | 6W    |         | <b>985'</b>                   | SOUTH                            | <b>958'</b>             | EAST           | RIO ARriba |
| <sup>12</sup> Dedicated Acres<br>320.0 Acres - E/2 (MV)<br>320.0 Acres - E/2 (DK) |         |          |       |         | <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

|    |          |                          |                                                                                                                                               |    |          |          |       |       |      |      |      |                       |                                                                                                                                                    |       |       |          |          |          |       |       |      |      |      |                       |                                                                                                                                                    |       |       |          |          |          |       |       |      |      |      |                       |                                                                                                                                                    |       |       |          |          |          |       |       |      |      |      |                       |                                                                                                                                                    |       |       |          |          |          |       |       |      |      |      |                       |                                                                                                                                                    |       |       |          |          |          |       |       |      |      |      |                       |                                                                                                                                                    |       |       |          |          |          |       |       |      |      |      |                       |                                                                                                                                                    |       |       |       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      |       |          |          |          |       |       |      |      |      |                       |                                                                                                                                                    |       |       |          |          |          |       |       |      |      |      |                       |                                                                                                                                                    |       |       |          |          |          |       |       |      |      |      |                       |                                                                                                                                                    |       |       |          |          |          |       |       |      |      |      |                       |                                                                                                                   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| 16 | 5269.44' | LEASE USA<br>SF-080713-A | BOTTOM HOLE<br>LAT: 36°47.6120' N<br>LONG: 107°26.6405' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44461' W<br>DATUM : NAD1983 | 22 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 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980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' 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LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280.00' | 5280.00' | 1655' | 1655' | 400' | 980' | 985' | N89°44.3'E<br>1245.0' | SURFACE LOCATION<br>LAT: 36°47.6122' N<br>LONG: 107°26.8957' W<br>DATUM : NAD1927<br><br>LAT: 36.79354' N<br>LONG: 107.44886' W<br>DATUM : NAD1983 | LOT 2 | LOT 1 | TRACT 43 | 5280. |
|----|----------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|------|------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|-------|

|                                                            |                                      |
|------------------------------------------------------------|--------------------------------------|
| <b>Legal WellName :</b> SAN JUAN 30-6 UNIT #102N           | <b>API / UWI:</b> 3003930828         |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP | <b>Surf Loc:</b> 022-030N-006W-O     |
| <b>St/Prov:</b> NEW MEXICO                                 | <b>N/S Dist (ft):</b> 980.00 - FSL   |
| <b>County:</b> RIO ARRIBA                                  | <b>E/W Dist (ft):</b> 2,230.00 - FEL |

|                                      |  |  |  |  |
|--------------------------------------|--|--|--|--|
| <b>Wellbore Name : Original Hole</b> |  |  |  |  |
|--------------------------------------|--|--|--|--|

| Description         | Date       | MD Tie In (ft) | Inclination Tie In (°) | Azimuth Tie In (°) |
|---------------------|------------|----------------|------------------------|--------------------|
| INCLINATION SURVEYS | 06/09/2010 | .00            | .00                    | .00                |

| Date       | MD (ft) | Incl (°) | Azm (°) | Method | Survey Company |
|------------|---------|----------|---------|--------|----------------|
| 06/09/2010 | 133.00  | .50      | .00     | Inc-WL | MOTE           |
| 06/09/2010 | 237.00  | .75      | .00     | Inc-WL | MOTE           |

| Description        | Date       | MD Tie In (ft) | Inclination Tie In (°) | Azimuth Tie In (°) |
|--------------------|------------|----------------|------------------------|--------------------|
| DIRECTIONAL SURVEY | 06/19/2010 | .00            | .00                    | .00                |

| Date       | MD (ft)  | Incl (°) | Azm (°) | Method     | Survey Company |
|------------|----------|----------|---------|------------|----------------|
| 06/20/2010 | 244.00   | .90      | 274.30  | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 275.00   | .40      | 300.80  | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 306.00   | .20      | 38.10   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 337.00   | .40      | 103.10  | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 368.00   | 1.60     | 84.50   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 399.00   | 2.60     | 79.50   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 430.00   | 3.50     | 76.20   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 460.00   | 4.30     | 76.80   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 490.00   | 5.20     | 77.70   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 521.00   | 6.10     | 81.00   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 552.00   | 7.20     | 79.70   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 583.00   | 8.10     | 78.20   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 613.00   | 9.00     | 79.20   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 644.00   | 10.00    | 80.90   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 675.00   | 11.20    | 83.60   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 706.00   | 12.10    | 83.50   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 737.00   | 13.40    | 85.10   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 768.00   | 14.40    | 87.60   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 799.00   | 15.70    | 88.60   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 830.00   | 16.70    | 89.10   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 861.00   | 17.80    | 89.70   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 892.00   | 18.80    | 89.30   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 923.00   | 19.80    | 89.30   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 954.00   | 20.70    | 89.40   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 984.00   | 21.60    | 89.30   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 1,015.00 | 22.70    | 90.30   | IncAzi-MWD | Pathfinder     |
| 06/20/2010 | 1,046.00 | 23.60    | 90.20   | IncAzi-MWD | Pathfinder     |

RCUD DEC 1 '10  
OIL CONS. DIV.  
DIST. 3

|            |          |       |       |            |            |
|------------|----------|-------|-------|------------|------------|
| 06/20/2010 | 1,076.00 | 24.70 | 90.90 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 1,137.00 | 25.80 | 90.90 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 1,199.00 | 25.30 | 90.00 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 1,261.00 | 25.80 | 90.00 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 1,323.00 | 27.10 | 90.50 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 1,386.00 | 27.20 | 90.10 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 1,481.00 | 27.60 | 88.40 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 1,577.00 | 27.30 | 90.00 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 1,672.00 | 27.60 | 91.30 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 1,767.00 | 27.80 | 91.60 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 1,862.00 | 27.90 | 91.60 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 1,957.00 | 27.50 | 90.70 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 2,051.00 | 25.20 | 91.80 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 2,146.00 | 24.30 | 91.60 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 2,241.00 | 24.60 | 91.40 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 2,336.00 | 24.40 | 91.20 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 2,431.00 | 24.80 | 91.10 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 2,526.00 | 24.60 | 91.10 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 2,620.00 | 23.80 | 90.00 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 2,715.00 | 25.00 | 89.20 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 2,810.00 | 26.10 | 88.80 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 2,905.00 | 26.30 | 88.80 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 3,001.00 | 26.40 | 89.20 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 3,095.00 | 25.60 | 89.70 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 3,126.00 | 25.30 | 89.00 | IncAzi-MWD | Pathfinder |
| 06/20/2010 | 3,159.00 | 24.90 | 88.60 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,190.00 | 24.10 | 88.50 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,222.00 | 23.30 | 88.80 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,253.00 | 22.20 | 89.20 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,285.00 | 20.80 | 89.80 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,316.00 | 19.50 | 90.70 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,348.00 | 18.70 | 90.30 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,380.00 | 17.80 | 91.70 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,411.00 | 16.80 | 91.10 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,443.00 | 16.10 | 91.70 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,538.00 | 14.20 | 86.20 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,569.00 | 14.00 | 86.00 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,601.00 | 14.00 | 87.30 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,632.00 | 13.60 | 87.80 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,664.00 | 12.70 | 90.30 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,696.00 | 12.20 | 92.90 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,728.00 | 11.50 | 94.40 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,759.00 | 10.40 | 95.40 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,791.00 | 9.10  | 94.90 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,823.00 | 7.60  | 92.50 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,854.00 | 6.40  | 90.90 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,886.00 | 5.20  | 89.80 | IncAzi-MWD | Pathfinder |
| 06/21/2010 | 3,918.00 | 4.00  | 88.80 | IncAzi-MWD | Pathfinder |

| 06/21/2010      | 3,981.00   | 2.00           | 91.10                  | IncAzi-MWD         | Pathfinder     |
|-----------------|------------|----------------|------------------------|--------------------|----------------|
| 06/21/2010      | 4,044.00   | 1.60           | 84.40                  | IncAzi-MWD         | Pathfinder     |
| 06/21/2010      | 4,170.00   | 1.40           | 79.30                  | IncAzi-MWD         | Pathfinder     |
| 06/21/2010      | 4,233.00   | 1.20           | 81.30                  | IncAzi-MWD         | Pathfinder     |
| 06/21/2010      | 4,297.00   | 1.10           | 68.40                  | IncAzi-MWD         | Pathfinder     |
| 06/21/2010      | 4,317.00   | 1.20           | 74.20                  | IncAzi-MWD         | Pathfinder     |
| Description     | Date       | MD Tie In (ft) | Inclination Tie In (°) | Azimuth Tie In (°) |                |
| FINAL BH SURVEY | 07/02/2010 | .00            | .00                    | .00                |                |
| Date            | MD (ft)    | Incl (°)       | Azm (°)                | Method             | Survey Company |
| 07/02/2010      | 8,129.00   | 2.00           | .00                    | Inc-WL             | PHOENIX        |

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

Mike Cook

Subscribed and sworn to me this 11/24/10

Maurice J. Garcia  
Notary Public in and for San Juan County, New Mexico

My Commission expires 7/28/14

RCVD DEC 1 '10  
OIL GAS DIV.  
DIST. 3

## ***DIRECTIONAL SURVEY REPORT***

**BURLINGTON RESOURCES OIL & GAS  
COMPANY LP.**

***San Juan 30-6 Unit #102N***

***API # 30-039-30828***

***RIO ARRIBA COUNTY, NM***

**PREPARED BY: Tom Schmidt**

7/2/2010

CONOCOPHILLIPS COMPANY  
Geneva Blackwater  
3401 E 30<sup>th</sup> Street, Farmington 87402

RE: BURLINGTON RESOURCES OIL & GAS COMPANY LP,  
SAN JUAN 30-6 Unit #102N  
RIO ARRIBA COUNTY, NM  
RIG: AZTEC 711  
API NO: 30-039-30828  
PES FILE NO.: 601001966-NM-NM

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

DIRECTIONAL SURVEY DATA

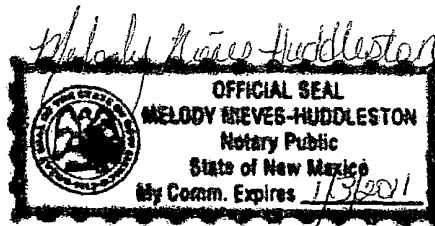
3 -- Directional Survey Report Copies

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (505) 324-0357

Sincerely,



Tom Schmidt  
M/LWD Service Coordinator  
PathFinder Energy Services



DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: SHAREWELL
2. NAME OF PERSON(S) PERFORMING SURVEY:  
A) Justin Hawkins  
B) Casey Berger
3. POSITION OF SAID PERSON(S): (A-B) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 6/20/2010 TO 6/22/2010
5. STATE IN WHICH SURVEY WAS PERFORMED: NM
6. LOCATION OF WELL: RIO ARRIBA COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

BURLINGTON RESOURCES OIL & GAS COMPANY LP.  
SAN JUAN 30-6 Unit #102N  
RIO ARRIBA COUNTY, NM  
RIG: AZTEC 711  
API NO: 30-039-30828

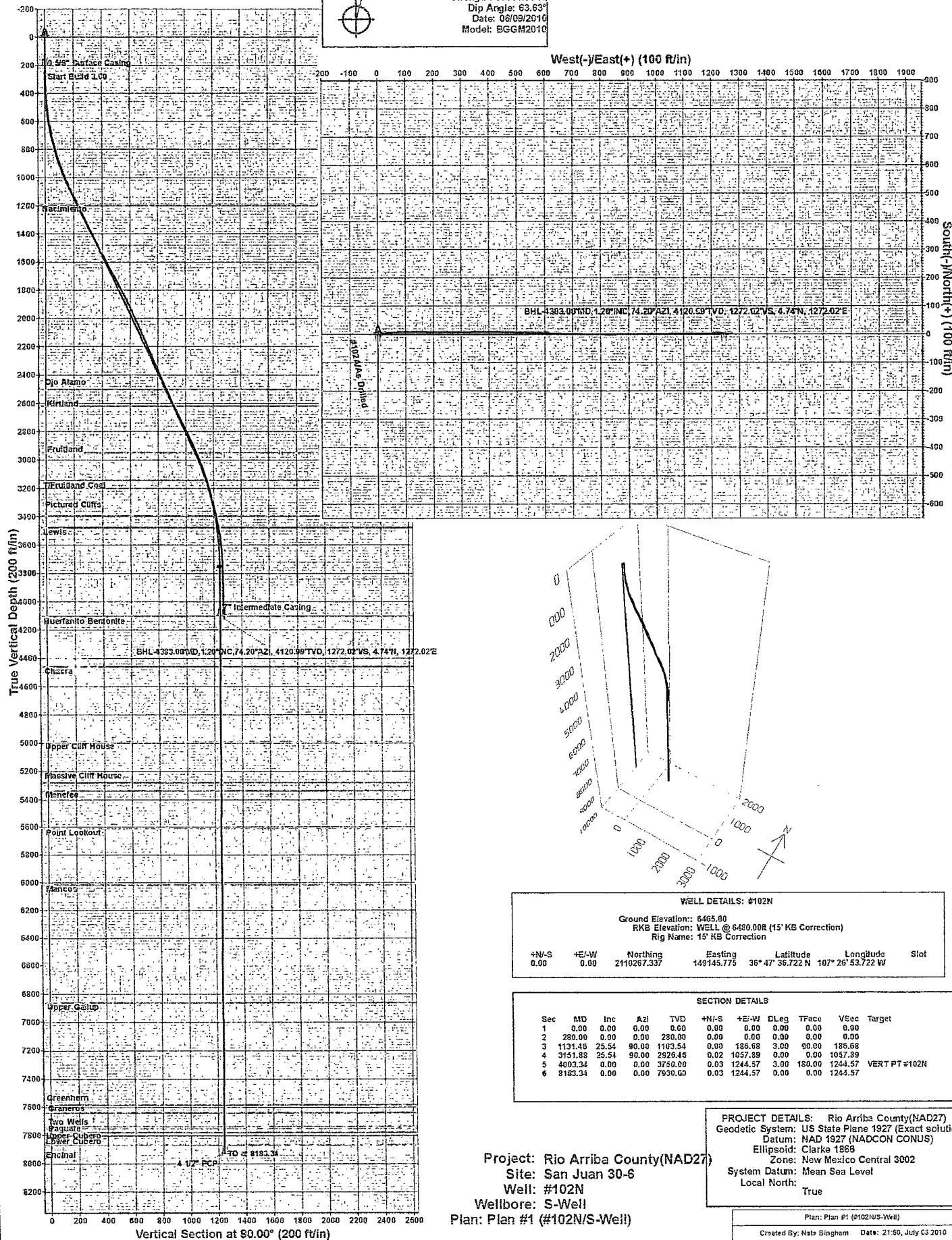
9. SURVEY CERTIFIED FROM: 244 TO 4317 MEASURED DEPTH

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE  
DISPLACED AT 1272.02 FEET, ON A BEARING OF 89 DEGREES FROM THE  
CENTER OF THE ROTARY TABLE AT A PROJECTED DEPTH OF 4383 FEET, ARE  
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

  
Tom Schmidt



Azimuths to True North  
Magnetic North: 5.68°  
Magnetic Field  
Strength: 50910.5nT  
Dip Angle: 63.63°  
Date: 06/09/2010  
Model: BGGM2010



Project: Rio Arriba County(NAD27)  
Site: San Juan 30-6  
Well: #102N  
Wellbore: S-Well  
Plan: Plan #1 (#102N/S-Well)



## **Conoco Phillips**

**Rio Arriba County(NAD27)**

**San Juan 30-6**

**#102N**

**S-Well**

**Survey: MWD #1**

## **Standard Survey Report**

**06 July, 2010**



|           |                          |                              |                                      |
|-----------|--------------------------|------------------------------|--------------------------------------|
| Company:  | Conoco Phillips          | Local Co-ordinate Reference: | Well #102N                           |
| Project:  | Rio Arriba County(NAD27) | TVD Reference:               | WELL @ 6480.00ft (15' KB Correction) |
| Site:     | San Juan 30-6            | MD Reference:                | WELL @ 6480.00ft (15' KB Correction) |
| Well:     | #102N                    | North Reference:             | True                                 |
| Wellbore: | S-Well                   | Survey Calculation Method:   | Minimum Curvature                    |
| Design:   | S-Well                   | Database:                    | Midland Database                     |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Rio Arriba County(NAD27)             |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico Central 3002              |               |                |

|                       |               |              |                  |                   |                   |
|-----------------------|---------------|--------------|------------------|-------------------|-------------------|
| Site                  | San Juan 30-6 |              |                  |                   |                   |
| Site Position:        |               | Northing:    | 2,102,035.511 ft | Latitude:         | 36° 46' 10.000 N  |
| From:                 | Lat/Long      | Easting:     | 108,396.412 ft   | Longitude:        | 107° 35' 13.200 W |
| Position Uncertainty: | 3.00 ft       | Slot Radius: | "                | Grid Convergence: | -0.80 °           |

|                      |         |                     |           |                  |             |                   |
|----------------------|---------|---------------------|-----------|------------------|-------------|-------------------|
| Well                 | #102N   |                     |           |                  |             |                   |
| Well Position        | +N/-S   | 0.00 ft             | Northing: | 2,110,267.337 ft | Latitude:   | 36° 47' 36.722 N  |
|                      | +E/-W   | 0.00 ft             | Easting:  | 149,145.775 ft   | Longitude:  | 107° 26' 53.722 W |
| Position Uncertainty | 3.00 ft | Wellhead Elevation: | ft        | Ground Level:    | 6,465.00 ft |                   |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | S-Well     |             |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | BGGM2010   | 06/09/2010  | 9.89            | 63.63         | 50,910              |

|                   |                  |            |            |               |      |
|-------------------|------------------|------------|------------|---------------|------|
| Design            | S-Well           |            |            |               |      |
| Audit Notes:      |                  |            |            |               |      |
| Version:          | 1.0              | Phase:     | ACTUAL     | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) | +N/-S (ft) | +E/-W (ft) | Direction (°) |      |
|                   | 0.00             | 0.00       | 0.00       | 90.00         |      |

|                |                 |                   |           |                |  |
|----------------|-----------------|-------------------|-----------|----------------|--|
| Survey Program | Date 07/06/2010 |                   |           |                |  |
| From (ft)      | To (ft)         | Survey (Wellbore) | Tool Name | Description    |  |
| 244.00         | 4,383.00        | MWD #1 (S-Well)   | MWD       | MWD - Standard |  |

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 0.00                | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 244.00              | 0.90            | 274.30      | 243.99              | 0.14       | -1.91      | -1.91                 | 0.37                  | 0.37                 | 0.00                |
| 275.00              | 0.40            | 300.80      | 274.99              | 0.22       | -2.25      | -2.25                 | 1.84                  | -1.61                | 85.48               |
| 306.00              | 0.20            | 38.10       | 305.99              | 0.32       | -2.31      | -2.31                 | 1.51                  | -0.65                | 313.87              |
| 337.00              | 0.40            | 103.10      | 336.99              | 0.33       | -2.17      | -2.17                 | 1.17                  | 0.65                 | 209.68              |
| 368.00              | 1.60            | 84.50       | 367.98              | 0.35       | -1.63      | -1.63                 | 3.96                  | 3.87                 | -60.00              |
| 399.00              | 2.60            | 79.50       | 398.96              | 0.52       | -0.51      | -0.51                 | 3.28                  | 3.23                 | -16.13              |
| 430.00              | 3.50            | 76.20       | 429.92              | 0.87       | 1.10       | 1.10                  | 2.96                  | 2.90                 | -10.65              |
| 460.00              | 4.30            | 76.80       | 459.85              | 1.35       | 3.09       | 3.09                  | 2.67                  | 2.67                 | 2.00                |
| 490.00              | 5.20            | 77.70       | 489.74              | 1.90       | 5.51       | 5.51                  | 3.01                  | 3.00                 | 3.00                |
| 521.00              | 6.10            | 81.00       | 520.59              | 2.45       | 8.51       | 8.51                  | 3.09                  | 2.90                 | 10.65               |
| 552.00              | 7.20            | 79.70       | 551.38              | 3.06       | 12.05      | 12.05                 | 3.58                  | 3.55                 | -4.19               |
| 583.00              | 8.10            | 78.20       | 582.11              | 3.85       | 16.10      | 16.10                 | 2.97                  | 2.90                 | -4.84               |

Company: Conoco Phillips  
Project: Rio Arriba County(NAD27)  
Site: San Juan 30-6  
Well: #102N  
Wellbore: S-Well  
Design: S-Well

Local Co-ordinate Reference: Well #102N  
TVD Reference: WELL @ 6480.00ft (15' KB Correction)  
MD Reference: WELL @ 6480.00ft (15' KB Correction)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: Midland Database

Survey

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 613.00                    | 9.00               | 79.20          | 611.77                    | 4.72          | 20.47         | 20.47                       | 3.04                        | 3.00                       | 3.33                      |
| 644.00                    | 10.00              | 80.90          | 642.35                    | 5.60          | 25.51         | 25.51                       | 3.35                        | 3.23                       | 5.48                      |
| 675.00                    | 11.20              | 83.60          | 672.82                    | 6.36          | 31.16         | 31.16                       | 4.19                        | 3.87                       | 8.71                      |
| 706.00                    | 12.10              | 83.50          | 703.18                    | 7.07          | 37.38         | 37.38                       | 2.90                        | 2.90                       | -0.32                     |
| 737.00                    | 13.40              | 85.10          | 733.42                    | 7.74          | 44.19         | 44.19                       | 4.35                        | 4.19                       | 5.16                      |
| 768.00                    | 14.40              | 87.60          | 763.51                    | 8.21          | 51.62         | 51.62                       | 3.76                        | 3.23                       | 8.06                      |
| 799.00                    | 15.70              | 88.60          | 793.44                    | 8.48          | 59.66         | 59.66                       | 4.28                        | 4.19                       | 3.23                      |
| 830.00                    | 16.70              | 89.10          | 823.21                    | 8.65          | 68.31         | 68.31                       | 3.26                        | 3.23                       | 1.61                      |
| 861.00                    | 17.80              | 89.70          | 852.82                    | 8.74          | 77.50         | 77.50                       | 3.59                        | 3.55                       | 1.94                      |
| 892.00                    | 18.80              | 89.30          | 882.25                    | 8.83          | 87.23         | 87.23                       | 3.25                        | 3.23                       | -1.29                     |
| 923.00                    | 19.80              | 89.30          | 911.51                    | 8.95          | 97.48         | 97.48                       | 3.23                        | 3.23                       | 0.00                      |
| 954.00                    | 20.70              | 89.40          | 940.59                    | 9.07          | 108.21        | 108.21                      | 2.91                        | 2.90                       | 0.32                      |
| 984.00                    | 21.60              | 89.30          | 968.57                    | 9.20          | 119.03        | 119.03                      | 3.00                        | 3.00                       | -0.33                     |
| 1,015.00                  | 22.70              | 90.30          | 997.28                    | 9.24          | 130.72        | 130.72                      | 3.75                        | 3.55                       | 3.23                      |
| 1,046.00                  | 23.60              | 90.20          | 1,025.78                  | 9.18          | 142.91        | 142.91                      | 2.91                        | 2.90                       | -0.32                     |
| 1,076.00                  | 24.70              | 90.90          | 1,053.16                  | 9.06          | 155.18        | 155.18                      | 3.79                        | 3.67                       | 2.33                      |
| 1,137.00                  | 25.80              | 90.90          | 1,108.33                  | 8.66          | 181.20        | 181.20                      | 1.80                        | 1.80                       | 0.00                      |
| 1,199.00                  | 25.30              | 90.00          | 1,164.27                  | 8.44          | 207.93        | 207.93                      | 1.02                        | -0.81                      | -1.45                     |
| 1,261.00                  | 25.80              | 90.00          | 1,220.20                  | 8.44          | 234.68        | 234.68                      | 0.81                        | 0.81                       | 0.00                      |
| 1,323.00                  | 27.10              | 90.50          | 1,275.71                  | 8.32          | 262.29        | 262.29                      | 2.13                        | 2.10                       | 0.81                      |
| 1,386.00                  | 27.20              | 90.10          | 1,331.77                  | 8.17          | 291.04        | 291.04                      | 0.33                        | 0.16                       | -0.63                     |
| 1,481.00                  | 27.60              | 88.40          | 1,416.11                  | 8.75          | 334.75        | 334.75                      | 0.92                        | 0.42                       | -1.79                     |
| 1,577.00                  | 27.30              | 90.00          | 1,501.31                  | 9.37          | 378.99        | 378.99                      | 0.83                        | -0.31                      | 1.67                      |
| 1,672.00                  | 27.60              | 91.30          | 1,585.61                  | 8.87          | 422.78        | 422.78                      | 0.71                        | 0.32                       | 1.37                      |
| 1,767.00                  | 27.80              | 91.60          | 1,669.72                  | 7.75          | 466.93        | 466.93                      | 0.26                        | 0.21                       | 0.32                      |
| 1,862.00                  | 27.90              | 91.60          | 1,753.72                  | 6.51          | 511.29        | 511.29                      | 0.11                        | 0.11                       | 0.00                      |
| 1,957.00                  | 27.50              | 90.70          | 1,837.83                  | 5.62          | 555.44        | 555.44                      | 0.61                        | -0.42                      | -0.95                     |
| 2,051.00                  | 25.20              | 91.80          | 1,922.06                  | 4.73          | 597.15        | 597.15                      | 2.50                        | -2.45                      | 1.17                      |
| 2,146.00                  | 24.30              | 91.60          | 2,008.33                  | 3.55          | 636.90        | 636.90                      | 0.95                        | -0.95                      | -0.21                     |
| 2,241.00                  | 24.60              | 91.40          | 2,094.81                  | 2.52          | 676.21        | 676.21                      | 0.33                        | 0.32                       | -0.21                     |
| 2,336.00                  | 24.40              | 91.20          | 2,181.26                  | 1.62          | 715.59        | 715.59                      | 0.23                        | -0.21                      | -0.21                     |
| 2,431.00                  | 24.80              | 91.10          | 2,267.64                  | 0.83          | 755.13        | 755.13                      | 0.42                        | 0.42                       | -0.11                     |
| 2,526.00                  | 24.60              | 91.10          | 2,353.95                  | 0.07          | 794.82        | 794.82                      | 0.21                        | -0.21                      | 0.00                      |
| 2,620.00                  | 23.80              | 90.00          | 2,439.69                  | -0.31         | 833.35        | 833.35                      | 0.98                        | -0.85                      | -1.17                     |
| 2,715.00                  | 25.00              | 89.20          | 2,526.20                  | -0.03         | 872.59        | 872.59                      | 1.31                        | 1.26                       | -0.84                     |
| 2,810.00                  | 26.10              | 88.80          | 2,611.91                  | 0.69          | 913.56        | 913.56                      | 1.17                        | 1.16                       | -0.42                     |
| 2,905.00                  | 26.30              | 88.80          | 2,697.15                  | 1.57          | 955.49        | 955.49                      | 0.21                        | 0.21                       | 0.00                      |
| 3,001.00                  | 26.40              | 89.20          | 2,783.17                  | 2.31          | 998.10        | 998.10                      | 0.21                        | 0.10                       | 0.42                      |
| 3,095.00                  | 25.60              | 89.70          | 2,867.66                  | 2.71          | 1,039.30      | 1,039.30                    | 0.88                        | -0.85                      | 0.53                      |
| 3,126.00                  | 25.30              | 89.00          | 2,895.65                  | 2.86          | 1,052.62      | 1,052.62                    | 1.37                        | -0.97                      | -2.26                     |
| 3,159.00                  | 24.90              | 88.60          | 2,925.53                  | 3.15          | 1,066.62      | 1,066.62                    | 1.32                        | -1.21                      | -1.21                     |
| 3,190.00                  | 24.10              | 88.50          | 2,953.74                  | 3.48          | 1,079.47      | 1,079.47                    | 2.58                        | -2.58                      | -0.32                     |
| 3,222.00                  | 23.30              | 88.80          | 2,983.04                  | 3.78          | 1,092.33      | 1,092.33                    | 2.53                        | -2.50                      | 0.94                      |
| 3,253.00                  | 22.20              | 89.20          | 3,011.63                  | 3.99          | 1,104.31      | 1,104.31                    | 3.58                        | -3.55                      | 1.29                      |
| 3,285.00                  | 20.80              | 89.80          | 3,041.40                  | 4.10          | 1,116.04      | 1,116.04                    | 4.43                        | -4.37                      | 1.87                      |
| 3,316.00                  | 19.50              | 90.70          | 3,070.51                  | 4.05          | 1,126.72      | 1,126.72                    | 4.31                        | -4.19                      | 2.90                      |
| 3,348.00                  | 18.70              | 90.30          | 3,100.74                  | 3.96          | 1,137.19      | 1,137.19                    | 2.53                        | -2.50                      | -1.25                     |
| 3,380.00                  | 17.80              | 91.70          | 3,131.13                  | 3.79          | 1,147.21      | 1,147.21                    | 3.13                        | -2.81                      | 4.37                      |
| 3,411.00                  | 16.80              | 91.10          | 3,160.73                  | 3.56          | 1,156.42      | 1,156.42                    | 3.28                        | -3.23                      | -1.94                     |
| 3,443.00                  | 16.10              | 91.70          | 3,191.42                  | 3.34          | 1,165.48      | 1,165.48                    | 2.25                        | -2.19                      | 1.87                      |
| 3,538.00                  | 14.20              | 86.20          | 3,283.12                  | 3.72          | 1,190.28      | 1,190.28                    | 2.51                        | -2.00                      | -5.79                     |
| 3,569.00                  | 14.00              | 86.00          | 3,313.19                  | 4.24          | 1,197.81      | 1,197.81                    | 0.66                        | -0.65                      | -0.65                     |
| 3,601.00                  | 14.00              | 87.30          | 3,344.24                  | 4.69          | 1,205.54      | 1,205.54                    | 0.98                        | 0.00                       | 4.06                      |
| 3,632.00                  | 13.60              | 87.80          | 3,374.34                  | 5.01          | 1,212.93      | 1,212.93                    | 1.35                        | -1.29                      | 1.61                      |

|                  |                          |                                     |                                      |
|------------------|--------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Conoco Phillips          | <b>Local Co-ordinate Reference:</b> | Well #102N                           |
| <b>Project:</b>  | Rio Arriba County(NAD27) | <b>TVD Reference:</b>               | WELL @ 6480.00ft (15' KB Correction) |
| <b>Site:</b>     | San Juan 30-6            | <b>MD Reference:</b>                | WELL @ 6480.00ft (15' KB Correction) |
| <b>Well:</b>     | #102N                    | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | S-Well                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | S-Well                   | <b>Database:</b>                    | Midland Database                     |

### Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 3,664.00            | 12.70           | 90.30       | 3,405.50            | 5.13       | 1,220.21   | 1,220.21              | 3.33                  | -2.81                | 7.81                |
| 3,696.00            | 12.20           | 92.90       | 3,436.75            | 4.94       | 1,227.10   | 1,227.10              | 2.35                  | -1.56                | 8.12                |
| 3,728.00            | 11.50           | 94.40       | 3,468.07            | 4.53       | 1,233.66   | 1,233.66              | 2.39                  | -2.19                | 4.69                |
| 3,759.00            | 10.40           | 95.40       | 3,498.50            | 4.03       | 1,239.53   | 1,239.53              | 3.60                  | -3.55                | 3.23                |
| 3,791.00            | 9.10            | 94.90       | 3,530.04            | 3.54       | 1,244.92   | 1,244.92              | 4.07                  | -4.06                | -1.56               |
| 3,823.00            | 7.60            | 92.50       | 3,561.70            | 3.23       | 1,249.56   | 1,249.56              | 4.81                  | -4.69                | -7.50               |
| 3,854.00            | 6.40            | 90.90       | 3,592.47            | 3.11       | 1,253.33   | 1,253.33              | 3.92                  | -3.87                | -5.16               |
| 3,886.00            | 5.20            | 89.80       | 3,624.30            | 3.09       | 1,256.57   | 1,256.57              | 3.77                  | -3.75                | -3.44               |
| 3,918.00            | 4.00            | 88.80       | 3,656.20            | 3.12       | 1,259.13   | 1,259.13              | 3.76                  | -3.75                | -3.12               |
| 3,981.00            | 2.00            | 91.10       | 3,719.11            | 3.14       | 1,262.43   | 1,262.43              | 3.18                  | -3.17                | 3.65                |
| 4,044.00            | 1.60            | 84.40       | 3,782.08            | 3.21       | 1,264.40   | 1,264.40              | 0.72                  | -0.63                | -10.63              |
| 4,170.00            | 1.40            | 79.30       | 3,908.04            | 3.67       | 1,267.67   | 1,267.67              | 0.19                  | -0.16                | -4.05               |
| 4,233.00            | 1.20            | 81.30       | 3,971.02            | 3.91       | 1,269.08   | 1,269.08              | 0.33                  | -0.32                | 3.17                |
| 4,297.00            | 1.10            | 68.40       | 4,035.01            | 4.24       | 1,270.31   | 1,270.31              | 0.43                  | -0.16                | -20.16              |
| 4,317.00            | 1.20            | 74.20       | 4,055.00            | 4.36       | 1,270.69   | 1,270.69              | 0.77                  | 0.50                 | 29.00               |
| 4,383.00            | 1.20            | 74.20       | 4,120.99            | 4.74       | 1,272.02   | 1,272.02              | 0.00                  | 0.00                 | 0.00                |

BHL-4383.00'MD, 1.20°INC, 74.20°AZI, 4120.99'TVD, 1272.02°VS, 4.74°N, 1272.02°E

### Targets

| Target Name                                                                               | - hit/miss target | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude         | Longitude         |
|-------------------------------------------------------------------------------------------|-------------------|---------------|--------------|----------|------------|------------|---------------|--------------|------------------|-------------------|
| VERT PT #102N                                                                             |                   | 0.00          | 0.00         | 3,750.00 | 0.03       | 1,244.57   | 2,110,251.774 | 150,390.244  | 36° 47' 36.722 N | 107° 26' 38.422 W |
| - survey misses target center by 19.14ft at 4011.31ft MD (3749.41 TVD, 3.15 N, 1263.44 E) |                   |               |              |          |            |            |               |              |                  |                   |
| - Point                                                                                   |                   |               |              |          |            |            |               |              |                  |                   |

### Survey Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates                      | Comment                                                             |
|---------------------|---------------------|----------------------------------------|---------------------------------------------------------------------|
| 4,383.00            | 4,120.99            | +N/-S (ft) 4.74<br>+E/-W (ft) 1,272.02 | BHL-4383.00'MD, 1.20°INC, 74.20°AZI, 4120.99'TVD, 1272.02°VS, 4.74° |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_