

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

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☒ AMENDED REPORT

"As Drilled"

### WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                        |                                                           |                                                                          |
|----------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------|
| <sup>1</sup> API Number<br>30-39-30131 | <sup>2</sup> Pool Code<br>97232 / 72319 / 71599           | <sup>3</sup> Pool Name<br>BASIN MANCOS / BLANCO MESAVERDE / BASIN DAKOTA |
| <sup>4</sup> Property Code<br>17033    | <sup>5</sup> Property Name<br>ROSA UNIT                   | <sup>6</sup> Well Number<br>18C                                          |
| <sup>7</sup> GRID No.<br>120782        | <sup>8</sup> Operator Name<br>WILLIAMS PRODUCTION COMPANY | <sup>9</sup> Elevation<br>6258'                                          |

#### <sup>10</sup> Surface Location

|                   |               |                 |             |         |               |                           |               |                        |                      |
|-------------------|---------------|-----------------|-------------|---------|---------------|---------------------------|---------------|------------------------|----------------------|
| UL or lot no<br>H | Section<br>22 | Township<br>31N | Range<br>6W | Lot Idn | Feet from the | North/South line<br>NORTH | Feet from the | East/West line<br>EAST | County<br>RIO ARriba |
|-------------------|---------------|-----------------|-------------|---------|---------------|---------------------------|---------------|------------------------|----------------------|

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

|                   |               |                 |             |         |               |                           |               |                        |                      |
|-------------------|---------------|-----------------|-------------|---------|---------------|---------------------------|---------------|------------------------|----------------------|
| UL or lot no<br>G | Section<br>22 | Township<br>31N | Range<br>6W | Lot Idn | Feet from the | North/South line<br>NORTH | Feet from the | East/West line<br>EAST | County<br>RIO ARriba |
|-------------------|---------------|-----------------|-------------|---------|---------------|---------------------------|---------------|------------------------|----------------------|

|                                                      |                               |                                  |                                                             |
|------------------------------------------------------|-------------------------------|----------------------------------|-------------------------------------------------------------|
| <sup>12</sup> Dedicated Acres<br>320.0 Acres - (E/2) | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No<br>RCVD JUL 14 '09<br>OIL CONS. DIV. |
|------------------------------------------------------|-------------------------------|----------------------------------|-------------------------------------------------------------|

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

DIST. 3

|                                     |          |       |       |                                                                            |          |      |       |          |          |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------|----------|-------|-------|----------------------------------------------------------------------------|----------|------|-------|----------|----------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16<br>TRACT 40<br>LOT 1<br>5280.00' | 5258.88' | 2311' | 1490' | SURFACE LOCATION<br>LAT: 36.88827°N<br>LONG: 107.44457°W<br>DATUM: NAD1983 | 2640.00' | 990' | 1887' | 2640.00' | 5257.56' | LEASE<br>SF-078766 | 17 OPERATOR CERTIFICATION<br>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.<br><br>Larry Higgins 7-13-09<br>Signature Date<br>Larry Higgins<br>Printed Name |
|                                     |          |       |       |                                                                            |          |      |       |          |          |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



ROSA UNIT #18C  
RIO ARriba CO., NEW MEXICO

#### SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +N/-S   | +E/-W   | DLeg | TFace  | VSec    | Target          |
|-----|---------|-------|--------|---------|---------|---------|------|--------|---------|-----------------|
| 1   | 0.00    | 0.00  | 229.40 | 0.00    | 0.00    | 0.00    | 0.00 | 0.00   | 0.00    |                 |
| 2   | 400.00  | 0.00  | 229.40 | 400.00  | 0.00    | 0.00    | 0.00 | 0.00   | 0.00    |                 |
| 3   | 1156.11 | 30.24 | 229.40 | 1121.48 | -126.87 | -148.04 | 4.00 | 229.40 | 194.97  |                 |
| 4   | 2305.06 | 30.24 | 229.40 | 2114.04 | -503.45 | -587.47 | 0.00 | 0.00   | 773.68  |                 |
| 5   | 3817.27 | 0.00  | 229.40 | 3557.00 | -757.19 | -883.56 | 2.00 | 180.00 | 1163.62 | Int. Csg. Pt. 2 |
| 6   | 8162.27 | 0.00  | 229.40 | 7902.00 | -757.19 | -883.56 | 0.00 | 229.40 | 1163.62 | TD 2            |

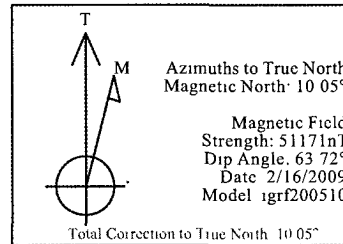
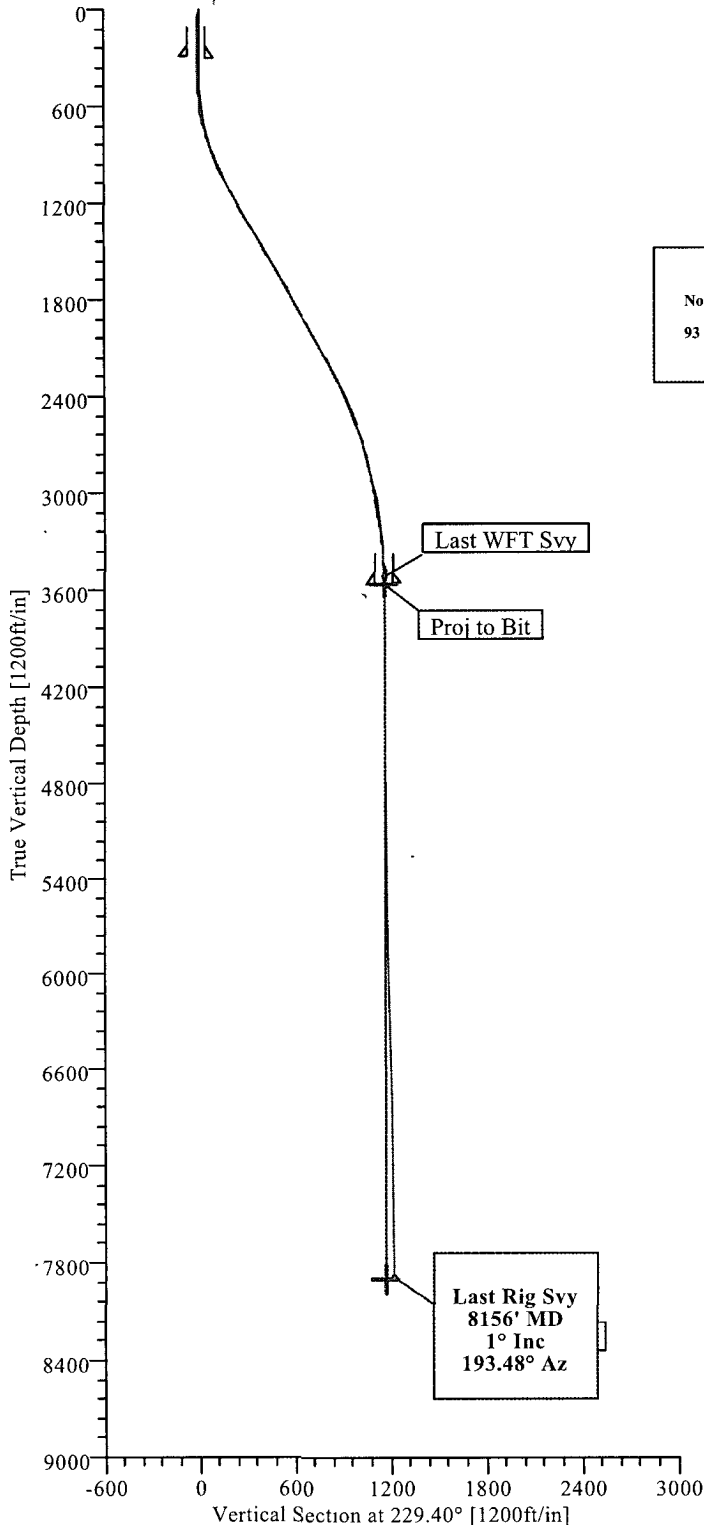
#### WELL DETAILS

| Name | +N/-S | +E/-W | Northing   | Easting    | Latitude      | Longitude      | Slot |
|------|-------|-------|------------|------------|---------------|----------------|------|
| #18C | 0.00  | 0.00  | 2144810.34 | 1291084.22 | 36°53'17.770N | 107°26'40.450W | N/A  |

#### TARGET DETAILS

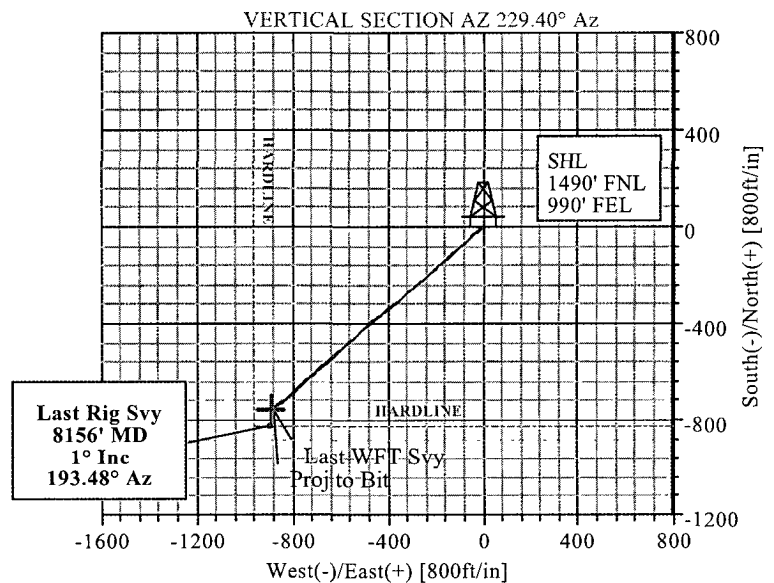
| Name            | TVD     | +N/-S   | +E/-W   | Northing   | Easting    | Latitude      | Longitude      | Shape |
|-----------------|---------|---------|---------|------------|------------|---------------|----------------|-------|
| Int. Csg. Pt. 2 | 3557.00 | -757.19 | -883.56 | 2144064.27 | 1290191.25 | 36°53'10.283N | 107°26'51.325W | Point |
| TD 2            | 7902.00 | -757.19 | -883.56 | 2144064.27 | 1290191.25 | 36°53'10.283N | 107°26'51.325W | Point |

KB ELEV: 6272'  
GR ELEV: 6258'



LEGEND  
#18C, I Plan #2  
WFT SVY

| No | MD      | Inc  | Az     | TVD     | +N/-S   | +E/-W   | DLeg | TFace | VSec    |
|----|---------|------|--------|---------|---------|---------|------|-------|---------|
| 93 | 8156.00 | 1.00 | 193.48 | 7893.07 | -821.06 | -896.69 | 0.01 | 0.00  | 1215.16 |



Weatherford®

Survey: WFT SVY (#18C/1)

Created By: Lindsey Maddux

Date: 6/23/2009



# Weatherford International, Inc.

## Survey Report



Weatherford

Company: WILLIAMS PRODUCTION Date: 6/23/2009 Time: 16:12:34 Page: 1  
 Field: Rio Arriba Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: #18C, True North  
 Site: Rosa Unit #18C Vertical (TVD) Reference: SITE 6272.0  
 Well: #18C Section (VS) Reference: Well (0.00N,0.00E,229.40Azi)  
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Rio Arriba Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983  
 Geo Datum: GRS 1980  
 Sys Datum: Mean Sea Level

Map Zone: New Mexico, Central Zone  
 Coordinate System: Well Centre  
 Geomagnetic Model: igrf200510

Site: Rosa Unit #18C

1490' FNL 990' FEL of SEC 22 T31N R6W

Site Position: Northing: 2144810.34 ft Latitude: 36 53 17.770 N  
 From: Geographic Easting: 1291084.22 ft Longitude: 107 26 40.450 W  
 Position Uncertainty: 0.00 ft North Reference: True  
 Ground Level: 6258.00 ft Grid Convergence: -0.72 deg

Well: #18C

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 2144810.34 ft Latitude: 36 53 17.770 N  
 +E/-W 0.00 ft Easting: 1291084.22 ft Longitude: 107 26 40.450 W  
 Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE Height 6272.00 ft  
 Magnetic Data: 2/16/2009  
 Field Strength: 51171 nT  
 Vertical Section: Depth From (TVD) +N/-S  
 ft ft  
 0.00 0.00 0.00 229.40

Survey: WFT SVY

Start Date: 6/10/2009

Company: Weatherford International, Inc  
 Tool: MWD;MWD - Standard

Engineer: Lindsey Maddux  
 Tied-to: From Surface

Survey: WFT SVY

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | Tool/Comment |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|--------------|
| 0.00     | 0.00        | 0.00        | 0.00      | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | MWD          |
| 395.00   | 0.75        | 81.90       | 394.99    | 0.36        | 2.56        | -2.18    | 0.19             | 0.19               | 0.00              | MWD          |
| 426.00   | 0.69        | 109.15      | 425.99    | 0.33        | 2.94        | -2.45    | 1.11             | -0.19              | 87.90             | MWD          |
| 457.00   | 0.88        | 171.52      | 456.98    | 0.03        | 3.15        | -2.41    | 2.67             | 0.61               | 201.19            | MWD          |
| 488.00   | 1.67        | 199.50      | 487.98    | -0.63       | 3.03        | -1.89    | 3.17             | 2.55               | 90.26             | MWD          |
| 517.00   | 2.38        | 214.55      | 516.96    | -1.52       | 2.55        | -0.95    | 3.04             | 2.45               | 51.90             | MWD          |
| 548.00   | 3.60        | 222.31      | 547.92    | -2.77       | 1.53        | 0.64     | 4.14             | 3.94               | 25.03             | MWD          |
| 579.00   | 5.13        | 226.40      | 578.82    | -4.45       | -0.13       | 2.99     | 5.03             | 4.94               | 13.19             | MWD          |
| 609.00   | 7.19        | 229.15      | 608.65    | -6.60       | -2.52       | 6.21     | 6.93             | 6.87               | 9.17              | MWD          |
| 640.00   | 9.19        | 228.40      | 639.33    | -9.51       | -5.84       | 10.62    | 6.46             | 6.45               | -2.42             | MWD          |
| 671.00   | 11.25       | 228.77      | 669.84    | -13.15      | -9.97       | 16.12    | 6.65             | 6.65               | 1.19              | MWD          |
| 702.00   | 13.19       | 230.15      | 700.14    | -17.41      | -14.96      | 22.68    | 6.33             | 6.26               | 4.45              | MWD          |
| 733.00   | 14.94       | 230.90      | 730.20    | -22.20      | -20.77      | 30.22    | 5.68             | 5.65               | 2.42              | MWD          |
| 764.00   | 16.81       | 230.90      | 760.02    | -27.54      | -27.35      | 38.69    | 6.03             | 6.03               | 0.00              | MWD          |
| 795.00   | 18.88       | 230.90      | 789.53    | -33.53      | -34.72      | 48.19    | 6.68             | 6.68               | 0.00              | MWD          |
| 826.00   | 20.50       | 231.52      | 818.71    | -40.08      | -42.87      | 58.63    | 5.27             | 5.23               | 2.00              | MWD          |
| 856.00   | 22.00       | 230.77      | 846.67    | -46.90      | -51.33      | 69.50    | 5.08             | 5.00               | -2.50             | MWD          |
| 886.00   | 22.69       | 229.40      | 874.42    | -54.22      | -60.08      | 80.90    | 2.88             | 2.30               | -4.57             | MWD          |
| 919.00   | 23.54       | 230.21      | 904.77    | -62.58      | -69.97      | 93.85    | 2.75             | 2.58               | 2.45              | MWD          |
| 951.00   | 23.88       | 229.27      | 934.07    | -70.89      | -79.79      | 106.72   | 1.59             | 1.06               | -2.94             | MWD          |
| 982.00   | 24.38       | 230.15      | 962.36    | -79.09      | -89.46      | 119.39   | 1.99             | 1.61               | 2.84              | MWD          |
| 1013.00  | 24.69       | 228.40      | 990.56    | -87.49      | -99.21      | 132.26   | 2.55             | 1.00               | -5.65             | MWD          |
| 1044.00  | 24.88       | 228.52      | 1018.71   | -96.10      | -108.94     | 145.26   | 0.63             | 0.61               | 0.39              | MWD          |
| 1075.00  | 25.25       | 227.90      | 1046.79   | -104.86     | -118.73     | 158.39   | 1.46             | 1.19               | -2.00             | MWD          |



# Weatherford International, Inc.

## Survey Report



**Weatherford**

|                                           |                                   |                              |                   |
|-------------------------------------------|-----------------------------------|------------------------------|-------------------|
| <b>Company:</b> WILLIAMS PRODUCTION       | <b>Date:</b> 6/23/2009            | <b>Time:</b> 16:12:34        | <b>Page:</b> 2    |
| <b>Field:</b> Rio Arriba Co., NM (NAD 83) | <b>Co-ordinate(NE) Reference:</b> | Well: #18C True North        |                   |
| <b>Site:</b> Rosa Unit #18C               | <b>Vertical (TVD) Reference:</b>  | SITE 6272.0                  |                   |
| <b>Well:</b> #18C                         | <b>Section (VS) Reference:</b>    | Well (0.00N,0.00E,229.40Azi) |                   |
| <b>Wellpath:</b> 1                        | <b>Survey Calculation Method:</b> | Minimum Curvature            | <b>Db:</b> Sybase |

**Survey:** WFT SVY

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | Tool/Comment |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|--------------|
| 1107.00  | 25.63       | 227.40      | 1075.69   | -114.12     | -128.89     | 172.13   | 1.36             | 1.19               | -1.56             | MWD          |
| 1138.00  | 26.25       | 228.15      | 1103.56   | -123.23     | -138.93     | 185.68   | 2.26             | 2.00               | 2.42              | MWD          |
| 1170.00  | 27.13       | 227.77      | 1132.15   | -132.85     | -149.61     | 200.05   | 2.80             | 2.75               | -1.19             | MWD          |
| 1202.00  | 27.91       | 227.94      | 1160.53   | -142.78     | -160.57     | 214.83   | 2.45             | 2.44               | 0.53              | MWD          |
| 1234.00  | 28.63       | 229.65      | 1188.71   | -152.76     | -171.97     | 229.98   | 3.39             | 2.25               | 5.34              | MWD          |
| 1265.00  | 29.44       | 229.77      | 1215.82   | -162.49     | -183.45     | 245.03   | 2.62             | 2.61               | 0.39              | MWD          |
| 1297.00  | 30.40       | 229.90      | 1243.55   | -172.78     | -195.65     | 260.99   | 3.01             | 3.00               | 0.41              | MWD          |
| 1360.00  | 31.38       | 230.02      | 1297.62   | -193.59     | -220.41     | 293.33   | 1.56             | 1.56               | 0.19              | MWD          |
| 1423.00  | 31.69       | 230.40      | 1351.31   | -214.67     | -245.73     | 326.28   | 0.58             | 0.49               | 0.60              | MWD          |
| 1455.00  | 32.13       | 230.02      | 1378.48   | -225.50     | -258.73     | 343.19   | 1.51             | 1.37               | -1.19             | MWD          |
| 1518.00  | 31.81       | 230.40      | 1431.92   | -246.85     | -284.36     | 376.55   | 0.60             | -0.51              | 0.60              | MWD          |
| 1580.00  | 30.69       | 231.90      | 1484.93   | -267.03     | -309.40     | 408.69   | 2.20             | -1.81              | 2.42              | MWD          |
| 1611.00  | 30.50       | 232.27      | 1511.61   | -276.72     | -321.85     | 424.45   | 0.86             | -0.61              | 1.19              | MWD          |
| 1675.00  | 30.82       | 232.45      | 1566.66   | -296.65     | -347.69     | 457.05   | 0.52             | 0.50               | 0.28              | MWD          |
| 1737.00  | 29.81       | 232.90      | 1620.19   | -315.63     | -372.57     | 488.29   | 1.67             | -1.63              | 0.73              | MWD          |
| 1799.00  | 29.38       | 231.15      | 1674.10   | -334.47     | -396.71     | 518.87   | 1.56             | -0.69              | -2.82             | MWD          |
| 1863.00  | 29.24       | 229.70      | 1729.91   | -354.42     | -420.86     | 550.20   | 1.13             | -0.22              | -2.27             | MWD          |
| 1926.00  | 29.13       | 230.90      | 1784.91   | -374.05     | -444.49     | 580.91   | 0.95             | -0.17              | 1.90              | MWD          |
| 1990.00  | 29.88       | 230.02      | 1840.61   | -394.11     | -468.80     | 612.42   | 1.35             | 1.17               | -1.37             | MWD          |
| 2052.00  | 30.00       | 229.15      | 1894.33   | -414.18     | -492.36     | 643.37   | 0.73             | 0.19               | -1.40             | MWD          |
| 2116.00  | 30.29       | 228.69      | 1949.68   | -435.30     | -516.58     | 675.51   | 0.58             | 0.45               | -0.72             | MWD          |
| 2178.00  | 30.75       | 228.52      | 2003.09   | -456.12     | -540.20     | 706.99   | 0.75             | 0.74               | -0.27             | MWD          |
| 2241.00  | 31.05       | 228.39      | 2057.15   | -477.57     | -564.42     | 739.34   | 0.49             | 0.48               | -0.21             | MWD          |
| 2271.00  | 30.88       | 227.77      | 2082.87   | -487.88     | -575.90     | 754.77   | 1.20             | -0.57              | -2.07             | MWD          |
| 2302.00  | 29.75       | 228.02      | 2109.63   | -498.38     | -587.51     | 770.41   | 3.67             | -3.65              | 0.81              | MWD          |
| 2333.00  | 29.88       | 230.02      | 2136.53   | -508.48     | -599.15     | 785.82   | 3.23             | 0.42               | 6.45              | MWD          |
| 2365.00  | 29.98       | 229.73      | 2164.26   | -518.77     | -611.35     | 801.79   | 0.55             | 0.31               | -0.91             | MWD          |
| 2397.00  | 28.94       | 230.27      | 2192.12   | -528.89     | -623.41     | 817.52   | 3.35             | -3.25              | 1.69              | MWD          |
| 2429.00  | 27.81       | 229.52      | 2220.28   | -538.68     | -635.04     | 832.73   | 3.70             | -3.53              | -2.34             | MWD          |
| 2461.00  | 26.69       | 228.02      | 2248.73   | -548.34     | -646.06     | 847.38   | 4.11             | -3.50              | -4.69             | MWD          |
| 2523.00  | 26.00       | 226.15      | 2304.29   | -567.07     | -666.21     | 874.87   | 1.74             | -1.11              | -3.02             | MWD          |
| 2554.00  | 26.18       | 226.24      | 2332.13   | -576.50     | -676.05     | 888.48   | 0.59             | 0.58               | 0.29              | MWD          |
| 2586.00  | 25.06       | 225.15      | 2360.98   | -586.16     | -685.96     | 902.29   | 3.80             | -3.50              | -3.41             | MWD          |
| 2616.00  | 24.69       | 225.65      | 2388.20   | -595.03     | -694.94     | 914.88   | 1.42             | -1.23              | 1.67              | MWD          |
| 2648.00  | 24.44       | 226.52      | 2417.30   | -604.25     | -704.52     | 928.16   | 1.37             | -0.78              | 2.72              | MWD          |
| 2679.00  | 24.19       | 227.77      | 2445.55   | -612.93     | -713.88     | 940.91   | 1.85             | -0.81              | 4.03              | MWD          |
| 2741.00  | 22.90       | 232.40      | 2502.40   | -628.83     | -732.85     | 965.66   | 3.64             | -2.08              | 7.47              | MWD          |
| 2773.00  | 21.50       | 231.65      | 2532.02   | -636.27     | -742.38     | 977.74   | 4.46             | -4.37              | -2.34             | MWD          |
| 2804.00  | 20.00       | 228.15      | 2561.01   | -643.33     | -750.78     | 988.71   | 6.28             | -4.84              | -11.29            | MWD          |
| 2835.00  | 18.75       | 225.77      | 2590.26   | -650.35     | -758.30     | 998.99   | 4.77             | -4.03              | -7.68             | MWD          |
| 2867.00  | 17.19       | 223.52      | 2620.70   | -657.36     | -765.24     | 1008.82  | 5.34             | -4.87              | -7.03             | MWD          |
| 2899.00  | 16.00       | 221.77      | 2651.36   | -664.08     | -771.44     | 1017.90  | 4.03             | -3.72              | -5.47             | MWD          |
| 2930.00  | 14.94       | 221.02      | 2681.24   | -670.28     | -776.91     | 1026.09  | 3.48             | -3.42              | -2.42             | MWD          |
| 2962.00  | 14.50       | 223.52      | 2712.19   | -676.30     | -782.37     | 1034.15  | 2.41             | -1.37              | 7.81              | MWD          |
| 2994.00  | 14.69       | 224.40      | 2743.16   | -682.10     | -787.97     | 1042.18  | 0.91             | 0.59               | 2.75              | MWD          |
| 3026.00  | 14.38       | 226.27      | 2774.13   | -687.75     | -793.68     | 1050.19  | 1.76             | -0.97              | 5.84              | MWD          |
| 3087.00  | 13.88       | 234.52      | 2833.29   | -697.23     | -805.11     | 1065.04  | 3.40             | -0.82              | 13.52             | MWD          |
| 3118.00  | 13.56       | 232.77      | 2863.41   | -701.59     | -811.04     | 1072.37  | 1.69             | -1.03              | -5.65             | MWD          |
| 3149.00  | 12.81       | 232.15      | 2893.59   | -705.90     | -816.64     | 1079.43  | 2.46             | -2.42              | -2.00             | MWD          |
| 3181.00  | 12.54       | 229.78      | 2924.81   | -710.32     | -822.10     | 1086.45  | 1.83             | -0.84              | -7.41             | MWD          |
| 3212.00  | 12.50       | 228.77      | 2955.07   | -714.70     | -827.19     | 1093.17  | 0.72             | -0.13              | -3.26             | MWD          |
| 3243.00  | 11.38       | 228.27      | 2985.40   | -718.95     | -832.00     | 1099.58  | 3.63             | -3.61              | -1.61             | MWD          |
| 3275.00  | 10.50       | 233.77      | 3016.82   | -722.77     | -836.70     | 1105.65  | 4.26             | -2.75              | 17.19             | MWD          |



# Weatherford International, Inc.

## Survey Report

**Weatherford**

Company: WILLIAMS PRODUCTION Date: 6/23/2009 Time: 16:12:34 Page: 3  
Field: Rio Arriba Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: #18C, True North  
Site: Rosa Unit #18C Vertical (TVD) Reference: SITE 6272.0  
Well: #18C Section (VS) Reference: Well (0.00N,0.00E,229.40Azi)  
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | Tool/Comment |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|--------------|
| 3306.00  | 10.06       | 234.77      | 3047.32   | -726.01     | -841.19     | 1111.16  | 1.53             | -1.42              | 3.23              | MWD          |
| 3369.00  | 7.50        | 238.02      | 3109.58   | -731.36     | -849.18     | 1120.71  | 4.14             | -4.06              | 5.16              | MWD          |
| 3400.00  | 7.51        | 235.57      | 3140.31   | -733.58     | -852.56     | 1124.72  | 1.03             | 0.03               | -7.90             | MWD          |
| 3432.00  | 8.29        | 231.03      | 3172.01   | -736.21     | -856.08     | 1129.10  | 3.12             | 2.44               | -14.19            | MWD          |
| 3463.00  | 9.03        | 233.14      | 3202.66   | -739.07     | -859.77     | 1133.77  | 2.60             | 2.39               | 6.81              | MWD          |
| 3495.00  | 9.88        | 231.27      | 3234.22   | -742.30     | -863.92     | 1139.02  | 2.82             | 2.66               | -5.84             | MWD          |
| 3526.00  | 9.88        | 229.03      | 3264.76   | -745.71     | -868.00     | 1144.33  | 1.24             | 0.00               | -7.23             | MWD          |
| 3558.00  | 9.65        | 226.03      | 3296.30   | -749.37     | -872.00     | 1149.76  | 1.74             | -0.72              | -9.37             | MWD          |
| 3590.00  | 8.06        | 223.15      | 3327.92   | -752.87     | -875.47     | 1154.66  | 5.16             | -4.97              | -9.00             | MWD          |
| 3621.00  | 5.75        | 224.40      | 3358.69   | -755.56     | -878.04     | 1158.37  | 7.47             | -7.45              | 4.03              | MWD          |
| 3683.00  | 1.44        | 226.27      | 3420.55   | -758.32     | -880.78     | 1162.25  | 6.95             | -6.95              | 3.02              | MWD          |
| 3715.00  | 0.88        | 245.52      | 3452.55   | -758.70     | -881.29     | 1162.88  | 2.11             | -1.75              | 60.16             | MWD          |
| 3747.00  | 0.63        | 247.90      | 3484.54   | -758.87     | -881.68     | 1163.29  | 0.79             | -0.78              | 7.44              | MWD          |
| 3769.00  | 0.67        | 193.48      | 3506.54   | -759.04     | -881.82     | 1163.51  | 2.71             | 0.18               | -247.36           | Last WFT Svy |
| 3822.00  | 0.67        | 193.48      | 3559.54   | -759.64     | -881.97     | 1164.01  | 0.00             | 0.00               | 0.00              | Proj to Bit  |
| 8156.00  | 1.00        | 193.48      | 7893.07   | -821.06     | -896.69     | 1215.16  | 0.01             | 0.01               | 0.00              | Last Rig Svy |

## Annotation

| MD<br>ft | TVD<br>ft |              |
|----------|-----------|--------------|
| 3769.00  | 3506.54   | Last WFT Svy |
| 3822.00  | 3559.54   | Proj to Bit  |
| 8156.00  | 7893.07   | Last Rig Svy |