

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

☒ AMENDED REPORT  
"As Drilled"

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                    |                                               |                                               |
|------------------------------------|-----------------------------------------------|-----------------------------------------------|
| *API Number<br><b>30-039-30220</b> | *Pool Code<br>72319 / 71599                   | *Pool Name<br>BLANCO MESAVERDE / BASIN DAKOTA |
| *Property Code<br>17033            | *Property Name<br>ROSA UNIT                   | *Well Number<br>85C                           |
| *GRID No.<br>120782                | *Operator Name<br>WILLIAMS PRODUCTION COMPANY | *Elevation<br>6429'                           |

<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     |
|--------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| A            | 20      | 31N      | 5W    |         | 685           | NORTH            | 835           | 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     |
|------------------------------------------------------|---------|----------|-------|---------|-------------------------------|----------------------------------|------------------------------------|------------------------------|------------|
| H                                                    | 20      | 31N      | 5W    |         | 2430                          | NORTH                            | 254                                | EAST                         | RIO ARRIBA |
| <sup>12</sup> Dedicated Acres<br>320.0 Acres - (N/2) |         |          |       |         | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No<br>NSL 5699 | OCT 24 '08<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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <sup>16</sup><br>LEASE<br>SF-078764                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | <sup>17</sup> OPERATOR CERTIFICATION<br>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division<br><br>Signature: <u>Larry Higgins</u> Date: <u>10-23-08</u><br>Printed Name: <u>LARRY HIGGINS</u> |
| <sup>18</sup> SURVEYOR CERTIFICATION<br>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief<br>Date Revised: OCTOBER 22, 2008<br>Survey Date: NOVEMBER 20, 2006<br>Signature and Seal of Professional Surveyor<br><br><br>JASON C. EDWARDS<br>Certificate Number 15269 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**20**

SURFACE LOCATION  
LAT: 36.89040°N  
LONG: 107.37956°W  
DATUM: NAD83  
  
LAT: 36°53.4236'N  
LONG: 107°22.7375'W  
DATUM: NAD27  
  
BOTTOM-HOLE  
LAT: 36.88562°N  
LONG: 107.37757°W  
DATUM: NAD83  
  
LAT: 36°53.1367'N  
LONG: 107°22.6178'W  
DATUM: NAD27

5284.62'

685'

835'

2430'

254'

2640.00'

5280.00'

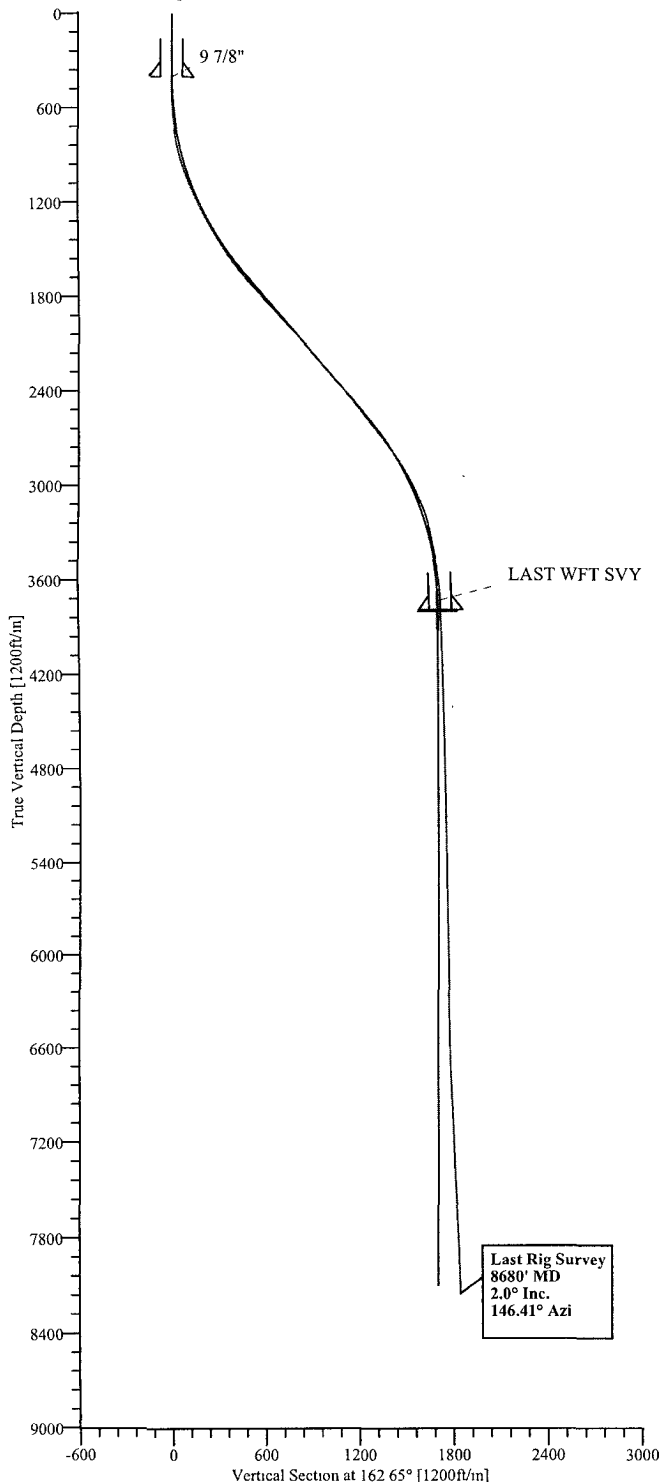


ROSA UNIT #85C  
RIO ARRIBA CO, NEW MEXICO

#### LEGEND

— #85-C, 1, Plan #1  
— WFT SVY

KB ELEV. 6443'  
GR ELEV. 6429'



#### SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD      | +N/-S    | +E/-W  | DLeg | TFace  | VSec    | Target      |
|-----|---------|-------|--------|----------|----------|--------|------|--------|---------|-------------|
| 1   | 0 00    | 0 00  | 162 65 | -6443 00 | 0 00     | 0 00   | 0 00 | 0 00   | 0 00    |             |
| 2   | 409 00  | 0 00  | 162 65 | -6043 00 | 0 00     | 0 00   | 0 00 | 0 00   | 0 00    |             |
| 3   | 1753 77 | 40 61 | 162 65 | -4799 78 | -439 12  | 137 18 | 3 00 | 162 65 | 460 05  |             |
| 4   | 2947 99 | 40 61 | 162 65 | -3893 22 | -1181 13 | 368 97 | 0 00 | 0 00   | 1237 42 |             |
| 5   | 4301 77 | 0 00  | 162 65 | -2650 00 | -1620 25 | 506 15 | 3 00 | 180 00 | 1697 47 | Int. Csg Pt |
| 6   | 8606 77 | 0 00  | 162 65 | -1655 00 | -1620 25 | 506 15 | 0 00 | 162 65 | 1697 47 |             |

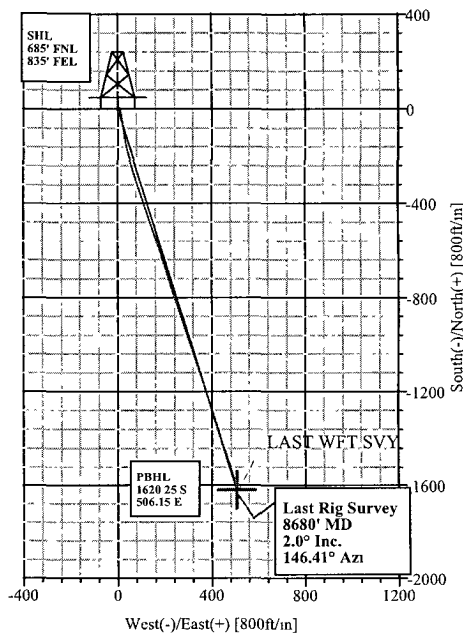
#### WELL DETAILS

| Name  | +N/-S | +E/-W | Northng    | Eastng     | Latitude      | Longitude      | Slot |
|-------|-------|-------|------------|------------|---------------|----------------|------|
| #85-C | 0 00  | 0 00  | 2145354.54 | 1310104.93 | 36°53'25.440N | 107°22'46.420W | N/A  |

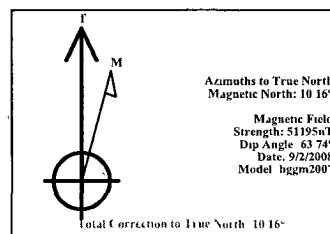
#### TARGET DETAILS

| Name       | TVD     | +N/-S    | +E/-W  | Northng    | Eastng     | Latitude      | Longitude      | Shape |
|------------|---------|----------|--------|------------|------------|---------------|----------------|-------|
| Int Csg Pt | 3793.00 | -1620.25 | 506 15 | 2143728.41 | 1310591.86 | 36°53'09.420N | 107°22'40.190W | Point |

RCVD OCT 24 '08  
CIL CONS. DIV.  
DIST. 3



**Weatherford®**



Survey WFT SVY (#85-C/1)

Created By Jayme Wilson

Date 10/21/2008



# Weatherford International Ltd.

## SURVEY REPORT



Weatherford

|                                    |                            |                                |            |
|------------------------------------|----------------------------|--------------------------------|------------|
| Company: WILLIAMS PRODUCTION       | Date: 10/21/2008           | Time: 09:47:55                 | Page: 1    |
| Field: Rio Arriba Co., NM (NAD 83) | Co-ordinate(NE) Reference: | Well: #85-C, True North        |            |
| Site: Rosa Unit #85-C              | Vertical (TVD) Reference:  | SITE 6443.0                    |            |
| Well: #85-C                        | Section (VS) Reference:    | Well (0.00N, 0.00E, 162.65Azi) |            |
| Wellpath: 1                        | Survey Calculation Method: | Minimum Curvature              | Db: Sybase |

|                                         |                        |
|-----------------------------------------|------------------------|
| Survey: WFT SVY                         | Start Date: 9/15/2008  |
| Company: Weatherford International Ltd. | Engineer: Jayme Wilson |
| Tool: MWD;MWD - Standard                | Tied-to: From Surface  |

|                                                   |                                    |
|---------------------------------------------------|------------------------------------|
| Field: Rio Arriba Co., NM (NAD 83)                |                                    |
| Map System: US State Plane Coordinate System 1983 | Map Zone: New Mexico, Central Zone |
| Geo Datum: GRS 1980                               | Coordinate System: Well Centre     |
| Sys Datum: Mean Sea Level                         | Geomagnetic Model: bggm2007        |

|                                            |                             |
|--------------------------------------------|-----------------------------|
| Site: Rosa Unit #85-C                      |                             |
| 685' FNL 835' FEL of SEC 20, T-31-N, R-5-W |                             |
| Site Position:                             | Northing: 2145354.54 ft     |
| From: Geographic                           | Easting: 1310104.93 ft      |
| Position Uncertainty: 0.00 ft              | Latitude: 36 53 25.440 N    |
| Ground Level: 6429.00 ft                   | Longitude: 107 22 46.420 W  |
|                                            | North Reference: True       |
|                                            | Grid Convergence: -0.68 deg |

|                               |                            |
|-------------------------------|----------------------------|
| Well: #85-C                   | Slot Name:                 |
| Well Position: +N/-S 0.00 ft  | Latitude: 36 53 25.440 N   |
| +E/-W 0.00 ft                 | Longitude: 107 22 46.420 W |
| Position Uncertainty: 0.00 ft |                            |

|                                    |                                    |
|------------------------------------|------------------------------------|
| Wellpath: 1                        | Drilled From: Surface              |
| Current Datum: SITE                | Tie-on Depth: 0.00 ft              |
| Magnetic Data: 9/2/2008            | Above System Datum: Mean Sea Level |
| Field Strength: 51195 nT           | Declination: 10.16 deg             |
| Vertical Section: Depth From (TVD) | Mag Dip Angle: 63.74 deg           |
| ft                                 | +E/-W                              |
|                                    | ft                                 |
| 0.00                               | Direction                          |
| 0.00                               | deg                                |
| 0.00                               | 162.65                             |

### Survey

| MD      | Incl  | Azim   | TVD     | N/S    | E/W   | VS    | DLS       | Build     | Turn      | Comment |
|---------|-------|--------|---------|--------|-------|-------|-----------|-----------|-----------|---------|
| ft      | deg   | deg    | ft      | ft     | ft    | ft    | deg/100ft | deg/100ft | deg/100ft |         |
| 0.00    | 0.00  | 0.00   | 0.00    | 0.00   | 0.00  | 0.00  | 0.00      | 0.00      | 0.00      |         |
| 355.00  | 1.94  | 52.16  | 354.93  | 3.69   | 4.75  | -2.10 | 0.55      | 0.55      | 0.00      |         |
| 386.00  | 1.83  | 52.23  | 385.92  | 4.31   | 5.55  | -2.46 | 0.35      | -0.35     | 0.23      |         |
| 416.00  | 1.31  | 48.66  | 415.90  | 4.83   | 6.19  | -2.77 | 1.76      | -1.73     | -11.90    |         |
| 447.00  | 0.69  | 67.79  | 446.90  | 5.14   | 6.63  | -2.93 | 2.24      | -2.00     | 61.71     |         |
| 478.00  | 0.75  | 147.29 | 477.90  | 5.04   | 6.91  | -2.75 | 2.97      | 0.19      | 256.45    |         |
| 509.00  | 1.56  | 167.29 | 508.89  | 4.45   | 7.11  | -2.13 | 2.88      | 2.61      | 64.52     |         |
| 539.00  | 2.44  | 165.41 | 538.87  | 3.44   | 7.36  | -1.09 | 2.94      | 2.93      | -6.27     |         |
| 569.00  | 3.06  | 166.41 | 568.84  | 2.04   | 7.71  | 0.35  | 2.07      | 2.07      | 3.33      |         |
| 600.00  | 3.69  | 166.04 | 599.78  | 0.27   | 8.15  | 2.17  | 2.03      | 2.03      | -1.19     |         |
| 630.00  | 4.63  | 163.29 | 629.70  | -1.83  | 8.73  | 4.35  | 3.20      | 3.13      | -9.17     |         |
| 660.00  | 6.13  | 163.16 | 659.57  | -4.52  | 9.54  | 7.16  | 5.00      | 5.00      | -0.43     |         |
| 691.00  | 6.56  | 165.04 | 690.38  | -7.82  | 10.48 | 10.58 | 1.54      | 1.39      | 6.06      |         |
| 722.00  | 7.50  | 164.79 | 721.15  | -11.48 | 11.46 | 14.38 | 3.03      | 3.03      | -0.81     |         |
| 752.00  | 8.69  | 168.79 | 750.85  | -15.59 | 12.42 | 18.59 | 4.39      | 3.97      | 13.33     |         |
| 782.00  | 9.94  | 168.79 | 780.45  | -20.35 | 13.36 | 23.41 | 4.17      | 4.17      | 0.00      |         |
| 812.00  | 11.13 | 170.04 | 809.95  | -25.75 | 14.37 | 28.86 | 4.04      | 3.97      | 4.17      |         |
| 842.00  | 12.50 | 172.41 | 839.31  | -31.82 | 15.30 | 34.93 | 4.84      | 4.57      | 7.90      |         |
| 873.00  | 13.94 | 172.29 | 869.49  | -38.84 | 16.24 | 41.92 | 4.65      | 4.65      | -0.39     |         |
| 904.00  | 15.19 | 171.66 | 899.49  | -46.56 | 17.33 | 49.61 | 4.06      | 4.03      | -2.03     |         |
| 934.00  | 16.69 | 171.54 | 928.34  | -54.71 | 18.53 | 57.75 | 5.00      | 5.00      | -0.40     |         |
| 965.00  | 18.13 | 171.54 | 957.92  | -63.89 | 19.90 | 66.91 | 4.65      | 4.65      | 0.00      |         |
| 996.00  | 19.00 | 169.41 | 987.30  | -73.62 | 21.54 | 76.69 | 3.56      | 2.81      | -6.87     |         |
| 1026.00 | 20.56 | 171.91 | 1015.53 | -83.63 | 23.17 | 86.74 | 5.91      | 5.20      | 8.33      |         |



# Weatherford International Ltd.

## SURVEY REPORT



Weatherford®

Company: WILLIAMS PRODUCTION Date: 10/21/2008 Time: 09:47:55 Page: 2  
Field: Rio Arriba Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: #85-C, True North  
Site: Rosa Unit #85-C Vertical (TVD) Reference: SITE 6443.0  
Well: #85-C Section (VS) Reference: Well (0.00N,0.00E,162.65Azi)  
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

| 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 | Comment |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|--------------------|-------------------|---------|
| 1087.00  | 23.44       | 172.04      | 1072.08   | -106.26   | 26.36     | 109.29   | 4.72             | 4.72               | 0.21              |         |
| 1117.00  | 24.11       | 171.20      | 1099.54   | -118.22   | 28.13     | 121.23   | 2.50             | 2.23               | -2.80             |         |
| 1148.00  | 24.50       | 169.41      | 1127.79   | -130.80   | 30.28     | 133.88   | 2.69             | 1.26               | -5.77             |         |
| 1179.00  | 24.94       | 168.66      | 1155.95   | -143.53   | 32.74     | 146.76   | 1.74             | 1.42               | -2.42             |         |
| 1210.00  | 25.31       | 167.29      | 1184.02   | -156.40   | 35.49     | 159.87   | 2.22             | 1.19               | -4.42             |         |
| 1242.00  | 25.56       | 166.16      | 1212.92   | -169.77   | 38.64     | 173.57   | 1.71             | 0.78               | -3.53             |         |
| 1274.00  | 26.06       | 165.16      | 1241.72   | -183.27   | 42.09     | 187.49   | 2.07             | 1.56               | -3.12             |         |
| 1306.00  | 26.75       | 164.04      | 1270.39   | -196.99   | 45.87     | 201.71   | 2.66             | 2.16               | -3.50             |         |
| 1337.00  | 28.06       | 162.66      | 1297.91   | -210.66   | 49.97     | 215.97   | 4.70             | 4.23               | -4.45             |         |
| 1369.00  | 29.13       | 162.79      | 1326.00   | -225.28   | 54.51     | 231.29   | 3.35             | 3.34               | 0.41              |         |
| 1401.00  | 29.56       | 162.79      | 1353.90   | -240.26   | 59.15     | 246.97   | 1.34             | 1.34               | 0.00              |         |
| 1433.00  | 30.25       | 163.66      | 1381.64   | -255.54   | 63.76     | 262.92   | 2.55             | 2.16               | 2.72              |         |
| 1465.00  | 30.81       | 163.04      | 1409.20   | -271.11   | 68.42     | 279.18   | 2.01             | 1.75               | -1.94             |         |
| 1497.00  | 31.38       | 162.91      | 1436.60   | -286.91   | 73.25     | 295.71   | 1.79             | 1.78               | -0.41             |         |
| 1528.00  | 32.31       | 162.16      | 1462.94   | -302.52   | 78.16     | 312.06   | 3.26             | 3.00               | -2.42             |         |
| 1560.00  | 33.13       | 162.04      | 1489.86   | -318.98   | 83.48     | 329.36   | 2.57             | 2.56               | -0.37             |         |
| 1592.00  | 33.75       | 160.91      | 1516.56   | -335.69   | 89.09     | 346.99   | 2.75             | 1.94               | -3.53             |         |
| 1624.00  | 34.75       | 160.91      | 1543.01   | -352.71   | 94.98     | 364.99   | 3.12             | 3.12               | 0.00              |         |
| 1656.00  | 36.06       | 161.29      | 1569.09   | -370.25   | 100.98    | 383.52   | 4.15             | 4.09               | 1.19              |         |
| 1687.00  | 37.38       | 161.79      | 1593.94   | -387.83   | 106.85    | 402.05   | 4.37             | 4.26               | 1.61              |         |
| 1719.00  | 38.60       | 161.98      | 1619.16   | -406.56   | 112.97    | 421.75   | 3.83             | 3.81               | 0.59              |         |
| 1751.00  | 39.25       | 161.54      | 1644.05   | -425.65   | 119.26    | 441.85   | 2.21             | 2.03               | -1.37             |         |
| 1783.00  | 40.06       | 161.16      | 1668.69   | -445.00   | 125.79    | 462.26   | 2.64             | 2.53               | -1.19             |         |
| 1816.00  | 41.38       | 161.66      | 1693.70   | -465.40   | 132.66    | 483.79   | 4.12             | 4.00               | 1.52              |         |
| 1847.00  | 41.25       | 161.91      | 1716.99   | -484.84   | 139.05    | 504.25   | 0.68             | -0.42              | 0.81              |         |
| 1878.00  | 41.56       | 161.16      | 1740.24   | -504.29   | 145.55    | 524.75   | 1.89             | 1.00               | -2.42             |         |
| 1909.00  | 42.06       | 160.66      | 1763.34   | -523.82   | 152.31    | 545.41   | 1.94             | 1.61               | -1.61             |         |
| 1940.00  | 41.44       | 160.54      | 1786.47   | -543.29   | 159.16    | 566.03   | 2.02             | -2.00              | -0.39             |         |
| 1972.00  | 42.06       | 161.16      | 1810.35   | -563.42   | 166.15    | 587.33   | 2.33             | 1.94               | 1.94              |         |
| 2003.00  | 41.94       | 161.41      | 1833.38   | -583.07   | 172.81    | 608.07   | 0.66             | -0.39              | 0.81              |         |
| 2035.00  | 41.94       | 161.16      | 1857.19   | -603.32   | 179.67    | 629.45   | 0.52             | 0.00               | -0.78             |         |
| 2067.00  | 42.56       | 162.16      | 1880.87   | -623.74   | 186.44    | 650.96   | 2.86             | 1.94               | 3.12              |         |
| 2098.00  | 42.60       | 162.40      | 1903.70   | -643.72   | 192.82    | 671.94   | 0.54             | 0.13               | 0.77              |         |
| 2130.00  | 43.13       | 162.91      | 1927.15   | -664.50   | 199.31    | 693.71   | 1.98             | 1.66               | 1.59              |         |
| 2161.00  | 43.13       | 163.66      | 1949.78   | -684.80   | 205.41    | 714.90   | 1.65             | 0.00               | 2.42              |         |
| 2193.00  | 42.75       | 163.29      | 1973.20   | -705.70   | 211.61    | 736.69   | 1.42             | -1.19              | -1.16             |         |
| 2225.00  | 42.63       | 162.79      | 1996.73   | -726.45   | 217.94    | 758.39   | 1.12             | -0.37              | -1.56             |         |
| 2257.00  | 42.56       | 162.66      | 2020.28   | -747.13   | 224.37    | 780.05   | 0.35             | -0.22              | -0.41             |         |
| 2289.00  | 42.50       | 162.41      | 2043.86   | -767.77   | 230.86    | 801.68   | 0.56             | -0.19              | -0.78             |         |
| 2320.00  | 41.38       | 162.29      | 2066.92   | -787.51   | 237.14    | 822.40   | 3.62             | -3.61              | -0.39             |         |
| 2352.00  | 40.13       | 161.29      | 2091.16   | -807.36   | 243.67    | 843.29   | 4.41             | -3.91              | -3.12             |         |
| 2384.00  | 40.44       | 160.54      | 2115.57   | -826.91   | 250.43    | 863.97   | 1.80             | 0.97               | -2.34             |         |
| 2416.00  | 40.75       | 160.79      | 2139.87   | -846.56   | 257.33    | 884.78   | 1.09             | 0.97               | 0.78              |         |
| 2447.00  | 40.63       | 161.91      | 2163.38   | -865.71   | 263.79    | 904.98   | 2.39             | -0.39              | 3.61              |         |
| 2478.00  | 40.63       | 162.54      | 2186.91   | -884.93   | 269.95    | 925.17   | 1.32             | 0.00               | 2.03              |         |
| 2510.00  | 40.21       | 162.41      | 2211.27   | -904.71   | 276.20    | 945.92   | 1.34             | -1.31              | -0.41             |         |
| 2542.00  | 39.94       | 162.04      | 2235.75   | -924.33   | 282.49    | 966.52   | 1.13             | -0.84              | -1.16             |         |
| 2574.00  | 39.94       | 162.54      | 2260.29   | -943.90   | 288.74    | 987.06   | 1.00             | 0.00               | 1.56              |         |
| 2605.00  | 39.94       | 162.29      | 2284.06   | -962.87   | 294.75    | 1006.96  | 0.52             | 0.00               | -0.81             |         |
| 2636.00  | 40.59       | 161.13      | 2307.71   | -981.90   | 301.04    | 1026.99  | 3.20             | 2.10               | -3.74             |         |
| 2668.00  | 41.38       | 160.79      | 2331.87   | -1001.73  | 307.89    | 1047.97  | 2.57             | 2.47               | -1.06             |         |
| 2700.00  | 42.06       | 161.29      | 2355.75   | -1021.87  | 314.81    | 1069.26  | 2.37             | 2.12               | 1.56              |         |



# Weatherford International Ltd.

## SURVEY REPORT



Weatherford

Company: WILLIAMS PRODUCTION  
Field: Rio Arriba Co., NM (NAD 83)  
Site: Rosa Unit #85-C  
Well: #85-C  
Wellpath: 1

Date: 10/21/2008 Time: 09:47:55 Page: 3  
Co-ordinate(NE) Reference: Well: #85-C, True North  
Vertical (TVD) Reference: SITE 6443.0  
Section (VS) Reference: Well (0.00N, 0.00E, 162.65Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

| 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 | Comment      |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|--------------------|-------------------|--------------|
| 2731.00  | 40.75       | 160.54      | 2379.00   | -1041.25  | 321.51    | 1089.75  | 4.52             | -4.23              | -2.42             |              |
| 2763.00  | 39.38       | 160.29      | 2403.49   | -1060.66  | 328.41    | 1110.33  | 4.31             | -4.28              | -0.78             |              |
| 2795.00  | 39.13       | 160.41      | 2428.27   | -1079.72  | 335.22    | 1130.56  | 0.82             | -0.78              | 0.37              |              |
| 2826.00  | 39.13       | 162.41      | 2452.32   | -1098.27  | 341.46    | 1150.12  | 4.07             | 0.00               | 6.45              |              |
| 2857.00  | 38.50       | 161.29      | 2476.48   | -1116.73  | 347.51    | 1169.55  | 3.04             | -2.03              | -3.61             |              |
| 2889.00  | 38.38       | 161.54      | 2501.54   | -1135.59  | 353.85    | 1189.44  | 0.61             | -0.37              | 0.78              |              |
| 2921.00  | 38.63       | 161.04      | 2526.58   | -1154.46  | 360.24    | 1209.36  | 1.25             | 0.78               | -1.56             |              |
| 2953.00  | 38.50       | 160.79      | 2551.60   | -1173.31  | 366.76    | 1229.30  | 0.63             | -0.41              | -0.78             |              |
| 2984.00  | 38.50       | 161.79      | 2575.86   | -1191.59  | 372.95    | 1248.59  | 2.01             | 0.00               | 3.23              |              |
| 3016.00  | 38.50       | 161.94      | 2600.91   | -1210.52  | 379.15    | 1268.51  | 0.29             | 0.00               | 0.47              |              |
| 3047.00  | 38.75       | 161.70      | 2625.13   | -1228.90  | 385.19    | 1287.85  | 0.94             | 0.81               | -0.77             |              |
| 3079.00  | 37.88       | 162.29      | 2650.23   | -1247.77  | 391.32    | 1307.69  | 2.95             | -2.72              | 1.84              |              |
| 3111.00  | 37.75       | 162.91      | 2675.51   | -1266.49  | 397.19    | 1327.31  | 1.26             | -0.41              | 1.94              |              |
| 3143.00  | 38.00       | 162.41      | 2700.77   | -1285.24  | 403.05    | 1346.96  | 1.24             | 0.78               | -1.56             |              |
| 3174.00  | 37.06       | 162.91      | 2725.36   | -1303.27  | 408.68    | 1365.84  | 3.19             | -3.03              | 1.61              |              |
| 3206.00  | 36.00       | 162.29      | 2751.07   | -1321.44  | 414.37    | 1384.89  | 3.51             | -3.31              | -1.94             |              |
| 3238.00  | 35.75       | 162.04      | 2777.00   | -1339.30  | 420.11    | 1403.64  | 0.91             | -0.78              | -0.78             |              |
| 3270.00  | 34.75       | 162.79      | 2803.13   | -1356.90  | 425.70    | 1422.11  | 3.41             | -3.12              | 2.34              |              |
| 3301.00  | 33.25       | 163.29      | 2828.83   | -1373.48  | 430.75    | 1439.44  | 4.92             | -4.84              | 1.61              |              |
| 3333.00  | 31.63       | 163.91      | 2855.84   | -1389.95  | 435.60    | 1456.61  | 5.17             | -5.06              | 1.94              |              |
| 3365.00  | 30.56       | 162.29      | 2883.24   | -1405.76  | 440.40    | 1473.13  | 4.24             | -3.34              | -5.06             |              |
| 3397.00  | 30.00       | 160.79      | 2910.87   | -1421.06  | 445.51    | 1489.26  | 2.94             | -1.75              | -4.69             |              |
| 3429.00  | 29.00       | 159.66      | 2938.72   | -1435.89  | 450.84    | 1505.00  | 3.58             | -3.12              | -3.53             |              |
| 3461.00  | 28.50       | 160.16      | 2966.78   | -1450.35  | 456.12    | 1520.38  | 1.73             | -1.56              | 1.56              |              |
| 3524.00  | 25.50       | 162.16      | 3022.91   | -1477.40  | 465.38    | 1548.96  | 4.97             | -4.76              | 3.17              |              |
| 3556.00  | 23.75       | 161.04      | 3052.00   | -1490.05  | 469.59    | 1562.29  | 5.66             | -5.47              | -3.50             |              |
| 3588.00  | 23.94       | 160.54      | 3081.26   | -1502.27  | 473.84    | 1575.22  | 0.87             | 0.59               | -1.56             |              |
| 3620.00  | 23.56       | 163.16      | 3110.56   | -1514.51  | 477.86    | 1588.10  | 3.50             | -1.19              | 8.19              |              |
| 3652.00  | 22.50       | 164.91      | 3140.01   | -1526.55  | 481.31    | 1600.62  | 3.94             | -3.31              | 5.47              |              |
| 3683.00  | 20.00       | 165.54      | 3168.90   | -1537.41  | 484.18    | 1611.84  | 8.10             | -8.06              | 2.03              |              |
| 3715.00  | 16.38       | 162.29      | 3199.29   | -1547.01  | 486.92    | 1621.82  | 11.74            | -11.31             | -10.16            |              |
| 3747.00  | 13.81       | 158.66      | 3230.19   | -1554.87  | 489.68    | 1630.15  | 8.55             | -8.03              | -11.34            |              |
| 3778.00  | 12.88       | 158.41      | 3260.35   | -1561.52  | 492.30    | 1637.28  | 3.01             | -3.00              | -0.81             |              |
| 3810.00  | 12.13       | 162.41      | 3291.59   | -1568.05  | 494.62    | 1644.20  | 3.58             | -2.34              | 12.50             |              |
| 3842.00  | 11.88       | 165.91      | 3322.89   | -1574.45  | 496.44    | 1650.85  | 2.40             | -0.78              | 10.94             |              |
| 3874.00  | 11.94       | 166.04      | 3354.20   | -1580.85  | 498.04    | 1657.45  | 0.21             | 0.19               | 0.41              |              |
| 3906.00  | 12.13       | 165.04      | 3385.50   | -1587.31  | 499.71    | 1664.11  | 0.88             | 0.59               | -3.12             |              |
| 3937.00  | 11.50       | 161.41      | 3415.84   | -1593.39  | 501.54    | 1670.45  | 3.14             | -2.03              | -11.71            |              |
| 3969.00  | 10.63       | 159.16      | 3447.25   | -1599.17  | 503.60    | 1676.59  | 3.03             | -2.72              | -7.03             |              |
| 4001.00  | 10.13       | 164.04      | 3478.72   | -1604.64  | 505.43    | 1682.35  | 3.16             | -1.56              | 15.25             |              |
| 4033.00  | 9.81        | 170.79      | 3510.24   | -1610.03  | 506.64    | 1687.86  | 3.78             | -1.00              | 21.09             |              |
| 4065.00  | 9.26        | 173.96      | 3541.80   | -1615.28  | 507.34    | 1693.08  | 2.38             | -1.72              | 9.91              |              |
| 4096.00  | 8.88        | 176.16      | 3572.41   | -1620.15  | 507.77    | 1697.86  | 1.66             | -1.23              | 7.10              |              |
| 4128.00  | 7.69        | 178.66      | 3604.08   | -1624.76  | 507.98    | 1702.32  | 3.88             | -3.72              | 7.81              |              |
| 4160.00  | 6.69        | 182.66      | 3635.83   | -1628.76  | 507.95    | 1706.12  | 3.49             | -3.12              | 12.50             |              |
| 4192.00  | 5.31        | 180.04      | 3667.65   | -1632.10  | 507.86    | 1709.29  | 4.40             | -4.31              | -8.19             |              |
| 4224.00  | 2.88        | 171.54      | 3699.57   | -1634.38  | 507.97    | 1711.50  | 7.81             | -7.59              | -26.56            |              |
| 4251.00  | 2.00        | 146.41      | 3726.54   | -1635.44  | 508.34    | 1712.62  | 5.06             | -3.26              | -93.07            | LAST WFT SVY |
| 4302.00  | 2.00        | 146.41      | 3777.51   | -1636.92  | 509.32    | 1714.33  | 0.00             | 0.00               | 0.00              | PROJ. TO BIT |
| 5450.00  | 1.00        | 146.41      | 4925.10   | -1661.96  | 525.95    | 1743.18  | 0.09             | -0.09              | 0.00              |              |
| 5886.00  | 1.00        | 146.41      | 5361.04   | -1668.30  | 530.16    | 1750.49  | 0.00             | 0.00               | 0.00              |              |
| 6235.00  | 1.00        | 146.41      | 5709.98   | -1673.37  | 533.52    | 1756.33  | 0.00             | 0.00               | 0.00              |              |
| 6490.00  | 1.00        | 146.41      | 5964.94   | -1677.08  | 535.99    | 1760.61  | 0.00             | 0.00               | 0.00              |              |



# Weatherford International Ltd.

## SURVEY REPORT

**Weatherford**

|           |                            |                            |                              |       |          |       |        |
|-----------|----------------------------|----------------------------|------------------------------|-------|----------|-------|--------|
| Company:  | WILLIAMS PRODUCTION        | Date:                      | 10/21/2008                   | Time: | 09:47:55 | Page: | 4      |
| Field:    | Rio Arriba Co. NM (NAD 83) | Co-ordinate(NE) Reference: | Well: #85-C, True North      |       |          |       |        |
| Site:     | Rosa Unit #85-C            | Vertical (TVD) Reference:  | SITE 6443.0                  |       |          |       |        |
| Well:     | #85-C                      | Section (VS) Reference:    | Well (0.00N:0.00E:162.65Azi) |       |          |       |        |
| Wellpath: |                            | Survey Calculation Method: | Minimum Curvature            |       |          | Db:   | Sybase |

### Survey

| 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 | Comment      |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|--------------------|-------------------|--------------|
| 6745.00  | 1.00        | 146.41      | 6219.90   | -1680.78  | 538.45    | 1764.88  | 0.00             | 0.00               | 0.00              |              |
| 7008.00  | 1.00        | 146.41      | 6482.86   | -1684.61  | 540.99    | 1769.29  | 0.00             | 0.00               | 0.00              |              |
| 7225.00  | 2.00        | 146.41      | 6699.79   | -1689.34  | 544.13    | 1774.74  | 0.46             | 0.46               | 0.00              |              |
| 7450.00  | 3.00        | 146.41      | 6924.57   | -1697.51  | 549.56    | 1784.16  | 0.44             | 0.44               | 0.00              |              |
| 7515.00  | 3.00        | 146.41      | 6989.48   | -1700.35  | 551.44    | 1787.43  | 0.00             | 0.00               | 0.00              |              |
| 7707.00  | 2.00        | 146.41      | 7181.30   | -1707.32  | 556.08    | 1795.47  | 0.52             | -0.52              | 0.00              |              |
| 7958.00  | 3.00        | 146.41      | 7432.05   | -1716.44  | 562.13    | 1805.98  | 0.40             | 0.40               | 0.00              |              |
| 8147.00  | 4.00        | 146.41      | 7620.70   | -1726.06  | 568.52    | 1817.06  | 0.53             | 0.53               | 0.00              |              |
| 8181.00  | 3.00        | 146.41      | 7654.64   | -1727.78  | 569.67    | 1819.05  | 2.94             | -2.94              | 0.00              |              |
| 8278.00  | 3.00        | 146.41      | 7751.50   | -1732.01  | 572.47    | 1823.92  | 0.00             | 0.00               | 0.00              |              |
| 8500.00  | 2.00        | 146.41      | 7973.29   | -1740.08  | 577.83    | 1833.22  | 0.45             | -0.45              | 0.00              |              |
| 8680.00  | 2.00        | 146.41      | 8153.18   | -1745.31  | 581.31    | 1839.25  | 0.00             | 0.00               | 0.00              | LAST RIG SVY |

### Casing Points

| MD<br>ft | TVD<br>ft | Diameter<br>in | Hole Size<br>in | Name          |
|----------|-----------|----------------|-----------------|---------------|
| 400.09   | 400.00    | 0.000          | 0.000           | 9 7/8"        |
| 4317.50  | 3793.00   | 0.000          | 0.000           | Int. Csg. Pt. |

### Annotation

| MD<br>ft | TVD<br>ft |              |
|----------|-----------|--------------|
| 4251.00  | 3726.54   | LAST WFT SVY |
| 4302.00  | 3777.51   | PROJ. TO BIT |
| 8680.00  | 8153.18   | LAST RIG SVY |