

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

REV OCT 17 '08  
OIL CONS DIV

|                                    |  |                                               |  |                                               |                     |
|------------------------------------|--|-----------------------------------------------|--|-----------------------------------------------|---------------------|
| *API Number<br><b>30-039-30181</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>6C  |
| *OGRID No.<br>120782               |  | *Operator Name<br>WILLIAMS PRODUCTION COMPANY |  |                                               | *Elevation<br>6782' |

<sup>10</sup> Surface Location

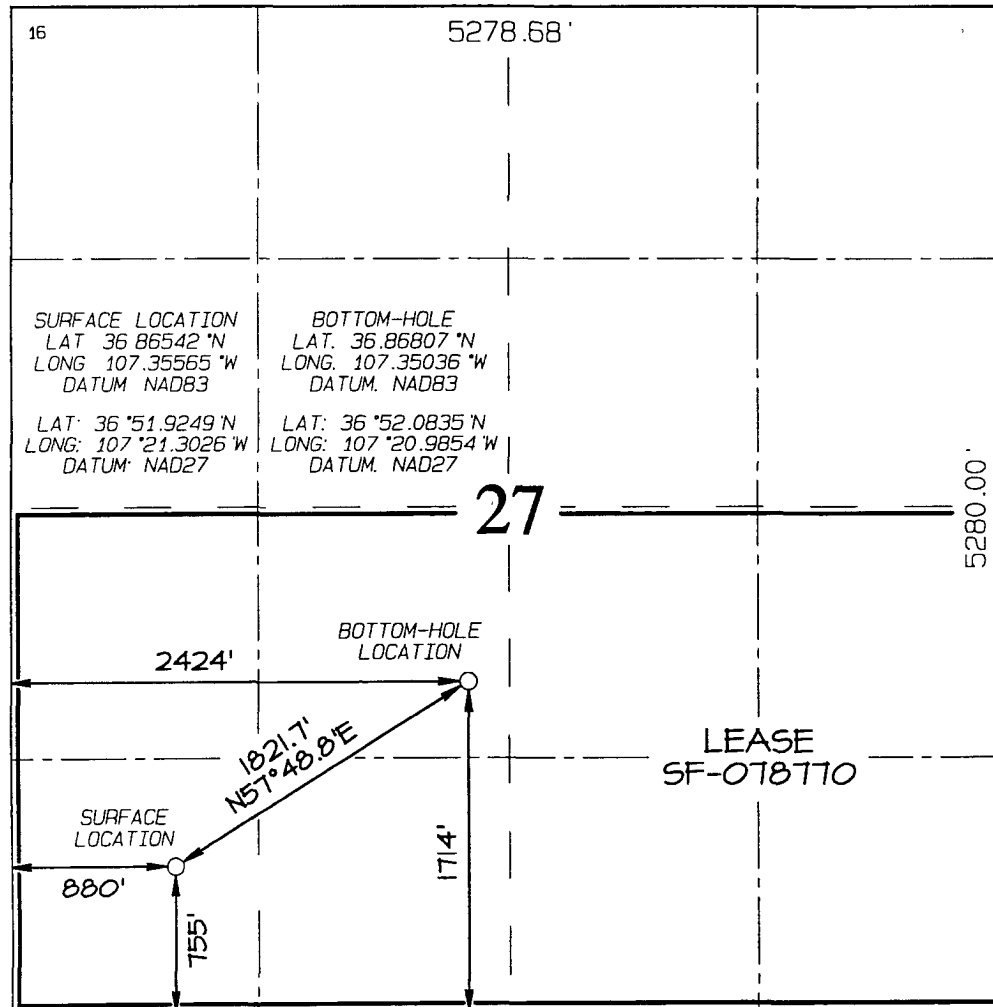
| UL or lot no | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County     |
|--------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| M            | 27      | 31N      | 5W    |         | 755           | SOUTH            | 880           | WEST           | 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     |
|--------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| K            | 27      | 31N      | 5W    |         | 1714          | SOUTH            | 2424          | WEST           | RIO ARriba |

|                                                      |                               |                                  |                        |
|------------------------------------------------------|-------------------------------|----------------------------------|------------------------|
| <sup>12</sup> Dedicated Acres<br>320.0 Acres - (S/2) | <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



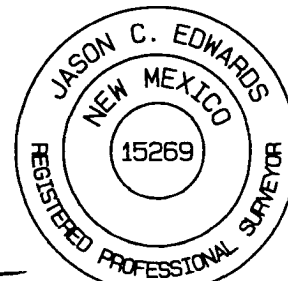
<sup>17</sup> OPERATOR CERTIFICATION  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Larry Higgins* 10-17-05  
Signature Date  
**LARRY HIGGINS**  
Printed Name

<sup>18</sup> SURVEYOR CERTIFICATION  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: OCTOBER 16, 2008  
Date of Survey: MAY 4, 2006

Signature and Seal of Professional Surveyor



**JASON C. EDWARDS**  
Certificate Number 15269

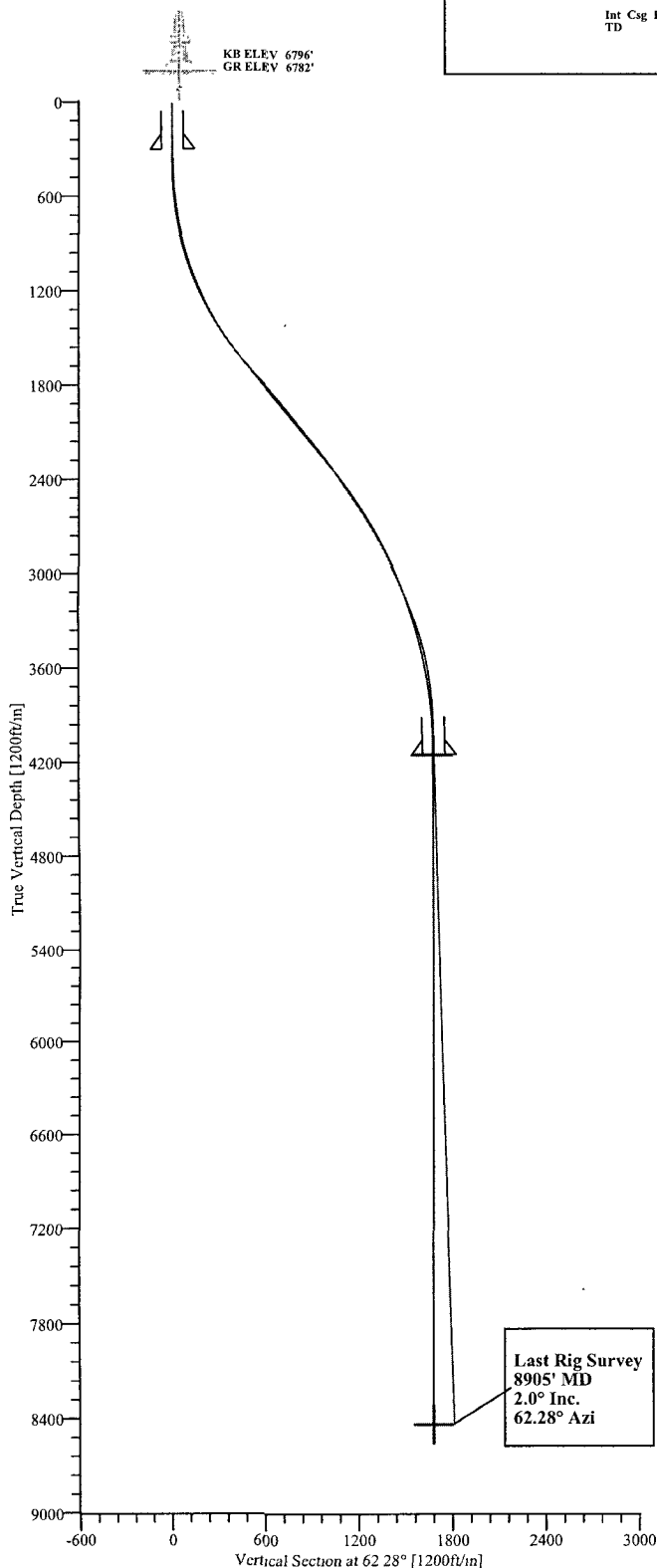
HOLD C104 FOR Dev. at T.D.



ROSA UNIT #6C  
RIO ARriba CO., NEW MEXICO

#### LEGEND

- #6C, 1, Plan #2
- 1
- WFT SVY



#### SECTION DETAILS

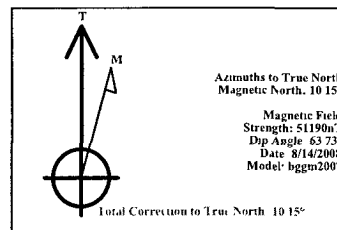
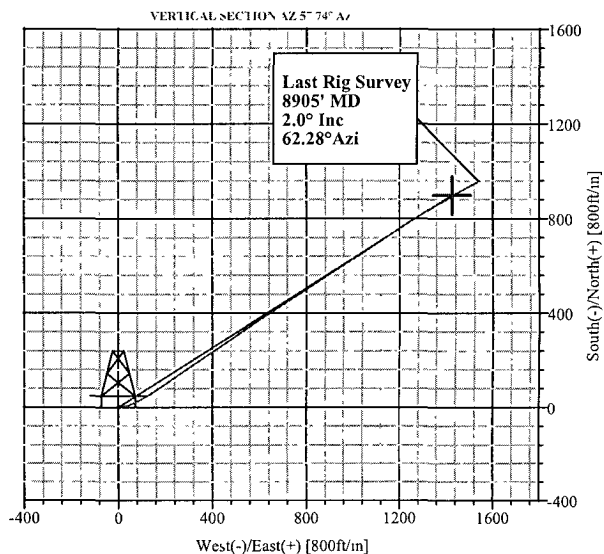
| Sec | MD      | Inc   | Azi   | TVD      | +N/-S  | +E/-W   | DLeg | TFace  | VSec    | Target     |
|-----|---------|-------|-------|----------|--------|---------|------|--------|---------|------------|
| 1   | 0 00    | 0 00  | 57.74 | -6796.00 | 0 00   | 0 00    | 0 00 | 0 00   | 0 00    |            |
| 2   | 400 00  | 0 00  | 57.74 | -6396.00 | 0 00   | 0 00    | 0 00 | 0 00   | 0 00    |            |
| 3   | 1725 68 | 39.77 | 57.74 | -5174.24 | 235.88 | 373.70  | 3.00 | 57.74  | 441.92  |            |
| 4   | 2631.98 | 39.77 | 57.74 | -4477.65 | 545.34 | 863.97  | 0.00 | 0 00   | 1021.69 |            |
| 5   | 4620.50 | 0 00  | 57.74 | -2645.00 | 899.16 | 1424.52 | 2.00 | 180 00 | 1684.56 | Int Csg Pt |
| 6   | 8905.50 | 0 00  | 57.74 | 1640.00  | 899.16 | 1424.52 | 0 00 | 57.74  | 1684.56 | TD         |

#### WELL DETAILS

| Name | +N/-S | +E/-W | Northing   | Easting    | Latitude      | Longitude      | Slot |
|------|-------|-------|------------|------------|---------------|----------------|------|
| #6C  | 0 00  | 0 00  | 2136177.82 | 1316995.36 | 36°51'55.510N | 107°21'20.300W | N/A  |

#### TARGET DETAILS

| Name        | TVD     | +N/-S  | +E/-W   | Northing   | Easting    | Latitude      | Longitude      | Shape |
|-------------|---------|--------|---------|------------|------------|---------------|----------------|-------|
| Int Csg Pt. | 4151.00 | 899.16 | 1424.52 | 2137060.42 | 1318430.20 | 36°52'04.400N | 107°21'02.770W | Point |
| TD          | 8436.00 | 899.16 | 1424.52 | 2137060.42 | 1318430.20 | 36°52'04.400N | 107°21'02.770W | Point |



**Weatherford®**

Survey WFT SVY (#6C/1)

Created By Jayme Wilson

Date 10/9/2008



# Weatherford International Ltd.

## SURVEY REPORT

**Weatherford**

|                                    |                            |                             |            |
|------------------------------------|----------------------------|-----------------------------|------------|
| Company: WILLIAMS PRODUCTION       | Date: 10/9/2008            | Time: 13:41:15              | Page: 1    |
| Field: Rio Arriba Co., NM (NAD 83) | Co-ordinate(NE) Reference: | Well: #6C, True North       |            |
| Site: Rosa Unit #6C                | Vertical (TVD) Reference:  | SITE 6796.0                 |            |
| Well: #6C                          | Section (VS) Reference:    | Well (0.00N;0.00E;62.28Azi) |            |
| Wellpath: 1                        | Survey Calculation Method: | Minimum Curvature           | Db: Sybase |

Survey: WFT SVY

Start Date:

9/17/2008

Company: Weatherford International, Inc

Engineer:

Lindsey Maddux

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 #6C

755' FSL 880' FEL of SEC 27, T-31-N, R-5-W

|                       |            |               |                   |                 |
|-----------------------|------------|---------------|-------------------|-----------------|
| Site Position:        | Northing:  | 2136177.82 ft | Latitude:         | 36 51 55.510 N  |
| From: Geographic      | Easting:   | 1316995.36 ft | Longitude:        | 107 21 20.300 W |
| Position Uncertainty: | 0.00 ft    |               | North Reference:  | True            |
| Ground Level:         | 6782.00 ft |               | Grid Convergence: | -0.66 deg       |

Well: #6C

Slot Name:

|                       |         |         |           |               |            |                 |
|-----------------------|---------|---------|-----------|---------------|------------|-----------------|
| Well Position:        | +N/-S   | 0.00 ft | Northing: | 2136177.82 ft | Latitude:  | 36 51 55.510 N  |
|                       | +E/-W   | 0.00 ft | Easting:  | 1316995.36 ft | Longitude: | 107 21 20.300 W |
| Position Uncertainty: | 0.00 ft |         |           |               |            |                 |

Wellpath: 1

Drilled From:

Surface

Current Datum: SITE

Height 6796.00 ft

Tie-on Depth:

0.00 ft

Magnetic Data: 8/14/2008

Above System Datum:

Mean Sea Level

Field Strength: 51190 nT

Declination:

10.15 deg

Vertical Section: Depth From (TVD)

+N/-S

Mag Dip Angle:

63.73 deg

ft

ft

+E/-W

Direction

0.00

0.00

ft

deg

0.00

62.28

### 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      |         |
| 348.00  | 1.31  | 106.65 | 347.97  | -1.14 | 3.81   | 2.84   | 0.38      | 0.38      | 0.00      |         |
| 379.00  | 1.75  | 103.53 | 378.96  | -1.35 | 4.61   | 3.45   | 1.44      | 1.42      | -10.06    |         |
| 409.00  | 2.44  | 90.90  | 408.94  | -1.47 | 5.69   | 4.36   | 2.75      | 2.30      | -42.10    |         |
| 440.00  | 3.25  | 83.03  | 439.90  | -1.37 | 7.23   | 5.76   | 2.89      | 2.61      | -25.39    |         |
| 471.00  | 3.81  | 79.40  | 470.84  | -1.08 | 9.11   | 7.56   | 1.94      | 1.81      | -11.71    |         |
| 502.00  | 4.63  | 76.28  | 501.76  | -0.59 | 11.34  | 9.76   | 2.75      | 2.65      | -10.06    |         |
| 533.00  | 5.19  | 76.03  | 532.64  | 0.04  | 13.92  | 12.34  | 1.81      | 1.81      | -0.81     |         |
| 564.00  | 6.00  | 75.53  | 563.50  | 0.79  | 16.85  | 15.28  | 2.62      | 2.61      | -1.61     |         |
| 595.00  | 6.38  | 74.78  | 594.31  | 1.64  | 20.08  | 18.54  | 1.25      | 1.23      | -2.42     |         |
| 626.00  | 7.25  | 72.40  | 625.10  | 2.69  | 23.60  | 22.14  | 2.95      | 2.81      | -7.68     |         |
| 656.00  | 7.88  | 74.65  | 654.83  | 3.81  | 27.39  | 26.02  | 2.32      | 2.10      | 7.50      |         |
| 687.00  | 8.88  | 74.15  | 685.50  | 5.02  | 31.74  | 30.43  | 3.23      | 3.23      | -1.61     |         |
| 718.00  | 9.69  | 72.28  | 716.10  | 6.47  | 36.53  | 35.34  | 2.79      | 2.61      | -6.03     |         |
| 749.00  | 10.69 | 71.65  | 746.61  | 8.17  | 41.74  | 40.75  | 3.25      | 3.23      | -2.03     |         |
| 780.00  | 11.50 | 70.15  | 777.03  | 10.12 | 47.38  | 46.65  | 2.77      | 2.61      | -4.84     |         |
| 811.00  | 12.44 | 69.53  | 807.35  | 12.34 | 53.41  | 53.02  | 3.06      | 3.03      | -2.00     |         |
| 841.00  | 13.50 | 67.03  | 836.59  | 14.84 | 59.66  | 59.72  | 4.00      | 3.53      | -8.33     |         |
| 872.00  | 14.25 | 66.53  | 866.68  | 17.77 | 66.50  | 67.13  | 2.45      | 2.42      | -1.61     |         |
| 904.00  | 14.81 | 65.15  | 897.66  | 21.06 | 73.82  | 75.14  | 2.06      | 1.75      | -4.31     |         |
| 934.00  | 15.75 | 63.78  | 926.60  | 24.47 | 80.95  | 83.04  | 3.36      | 3.13      | -4.57     |         |
| 965.00  | 16.88 | 62.03  | 956.35  | 28.44 | 88.70  | 91.75  | 3.97      | 3.65      | -5.65     |         |
| 996.00  | 17.63 | 61.53  | 985.95  | 32.78 | 96.80  | 100.94 | 2.47      | 2.42      | -1.61     |         |
| 1028.00 | 18.38 | 60.15  | 1016.39 | 37.61 | 105.44 | 110.83 | 2.70      | 2.34      | -4.31     |         |



# Weatherford International Ltd.

## SURVEY REPORT



**Weatherford**

Company: WILLIAMS PRODUCTION Date: 10/9/2008 Time: 13:41:15 Page: 2  
 Field: Rio Arriba Co., NM (NAD83) Co-ordinate(NE) Reference: Well: #6C, True North  
 Site: Rosa Unit #6C Vertical (TVD) Reference: SITE 6796.0  
 Well: #6C Section (VS) Reference: Well (0.00N,0.00E,62.28Azi)  
 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 |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|--------------------|-------------------|---------|
| 1059.00  | 19.69       | 59.65       | 1045.69   | 42.68     | 114.19    | 120.93   | 4.26             | 4.23               | -1.61             |         |
| 1091.00  | 20.75       | 58.78       | 1075.72   | 48.34     | 123.69    | 131.98   | 3.44             | 3.31               | -2.72             |         |
| 1122.00  | 21.75       | 57.65       | 1104.61   | 54.26     | 133.23    | 143.18   | 3.49             | 3.23               | -3.65             |         |
| 1153.00  | 22.13       | 56.90       | 1133.37   | 60.52     | 142.98    | 154.72   | 1.52             | 1.23               | -2.42             |         |
| 1183.00  | 22.88       | 56.78       | 1161.08   | 66.80     | 152.59    | 166.15   | 2.50             | 2.50               | -0.40             |         |
| 1214.00  | 23.75       | 56.28       | 1189.55   | 73.57     | 162.82    | 178.36   | 2.88             | 2.81               | -1.61             |         |
| 1245.00  | 24.50       | 56.40       | 1217.84   | 80.59     | 173.37    | 190.96   | 2.42             | 2.42               | 0.39              |         |
| 1277.00  | 25.06       | 56.58       | 1246.90   | 88.00     | 184.55    | 204.30   | 1.77             | 1.75               | 0.56              |         |
| 1308.00  | 26.06       | 55.58       | 1274.86   | 95.46     | 195.65    | 217.60   | 3.51             | 3.23               | -3.23             |         |
| 1338.00  | 27.31       | 55.95       | 1301.67   | 103.04    | 206.79    | 230.99   | 4.20             | 4.17               | 1.23              |         |
| 1369.00  | 27.94       | 55.70       | 1329.13   | 111.12    | 218.68    | 245.27   | 2.07             | 2.03               | -0.81             |         |
| 1401.00  | 28.69       | 55.20       | 1357.30   | 119.72    | 231.18    | 260.34   | 2.46             | 2.34               | -1.56             |         |
| 1433.00  | 29.94       | 54.70       | 1385.20   | 128.72    | 244.01    | 275.88   | 3.98             | 3.91               | -1.56             |         |
| 1464.00  | 31.44       | 55.03       | 1411.86   | 137.83    | 256.95    | 291.57   | 4.87             | 4.84               | 1.06              |         |
| 1496.00  | 32.88       | 55.90       | 1438.95   | 147.48    | 270.98    | 308.48   | 4.73             | 4.50               | 2.72              |         |
| 1527.00  | 33.81       | 56.28       | 1464.85   | 156.99    | 285.12    | 325.42   | 3.07             | 3.00               | 1.23              |         |
| 1559.00  | 34.56       | 56.15       | 1491.32   | 166.98    | 300.06    | 343.30   | 2.35             | 2.34               | -0.41             |         |
| 1591.00  | 35.38       | 55.53       | 1517.54   | 177.28    | 315.24    | 361.52   | 2.79             | 2.56               | -1.94             |         |
| 1621.00  | 36.38       | 56.15       | 1541.85   | 187.16    | 329.79    | 379.00   | 3.55             | 3.33               | 2.07              |         |
| 1653.00  | 37.13       | 56.03       | 1567.49   | 197.84    | 345.68    | 398.03   | 2.35             | 2.34               | -0.37             |         |
| 1685.00  | 38.25       | 56.40       | 1592.81   | 208.72    | 361.94    | 417.49   | 3.57             | 3.50               | 1.16              |         |
| 1715.00  | 39.00       | 56.90       | 1616.25   | 219.01    | 377.58    | 436.12   | 2.71             | 2.50               | 1.67              |         |
| 1746.00  | 40.50       | 56.65       | 1640.08   | 229.87    | 394.17    | 455.85   | 4.87             | 4.84               | -0.81             |         |
| 1777.00  | 41.38       | 56.15       | 1663.50   | 241.11    | 411.08    | 476.06   | 3.03             | 2.84               | -1.61             |         |
| 1809.00  | 41.81       | 55.65       | 1687.43   | 253.02    | 428.67    | 497.17   | 1.70             | 1.34               | -1.56             |         |
| 1840.00  | 42.38       | 55.78       | 1710.43   | 264.73    | 445.85    | 517.82   | 1.86             | 1.84               | 0.42              |         |
| 1871.00  | 42.25       | 55.77       | 1733.35   | 276.47    | 463.10    | 538.55   | 0.42             | -0.42              | -0.03             |         |
| 1903.00  | 42.44       | 55.90       | 1757.00   | 288.57    | 480.94    | 559.97   | 0.65             | 0.59               | 0.41              |         |
| 1935.00  | 43.44       | 56.15       | 1780.43   | 300.75    | 499.01    | 581.64   | 3.17             | 3.12               | 0.78              |         |
| 1966.00  | 42.69       | 55.53       | 1803.08   | 312.64    | 516.53    | 602.67   | 2.78             | -2.42              | -2.00             |         |
| 1997.00  | 42.31       | 55.53       | 1825.93   | 324.49    | 533.80    | 623.47   | 1.23             | -1.23              | 0.00              |         |
| 2027.00  | 42.06       | 55.53       | 1848.16   | 335.89    | 550.40    | 643.48   | 0.83             | -0.83              | 0.00              |         |
| 2059.00  | 40.88       | 55.78       | 1872.14   | 347.85    | 567.90    | 664.53   | 3.72             | -3.69              | 0.78              |         |
| 2091.00  | 39.88       | 55.65       | 1896.52   | 359.53    | 585.03    | 685.12   | 3.14             | -3.12              | -0.41             |         |
| 2121.00  | 39.94       | 56.03       | 1919.53   | 370.34    | 600.96    | 704.25   | 0.84             | 0.20               | 1.27              |         |
| 2153.00  | 38.63       | 56.23       | 1944.30   | 381.63    | 617.78    | 724.39   | 4.11             | -4.09              | 0.62              |         |
| 2185.00  | 38.75       | 56.28       | 1969.27   | 392.74    | 634.41    | 744.29   | 0.39             | 0.37               | 0.16              |         |
| 2216.00  | 38.75       | 56.90       | 1993.45   | 403.42    | 650.61    | 763.59   | 1.25             | 0.00               | 2.00              |         |
| 2248.00  | 38.69       | 57.40       | 2018.42   | 414.28    | 667.42    | 783.53   | 1.00             | -0.19              | 1.56              |         |
| 2279.00  | 38.63       | 57.53       | 2042.62   | 424.70    | 683.75    | 802.83   | 0.33             | -0.19              | 0.42              |         |
| 2311.00  | 38.75       | 57.40       | 2067.60   | 435.46    | 700.62    | 822.76   | 0.45             | 0.37               | -0.41             |         |
| 2341.00  | 39.31       | 57.28       | 2090.91   | 445.65    | 716.52    | 841.58   | 1.88             | 1.87               | -0.40             |         |
| 2373.00  | 39.69       | 57.65       | 2115.60   | 456.60    | 733.68    | 861.86   | 1.40             | 1.19               | 1.16              |         |
| 2404.00  | 39.75       | 57.28       | 2139.44   | 467.25    | 750.38    | 881.60   | 0.79             | 0.19               | -1.19             |         |
| 2436.00  | 38.19       | 57.15       | 2164.32   | 478.15    | 767.30    | 901.65   | 4.88             | -4.87              | -0.41             |         |
| 2467.00  | 38.38       | 56.65       | 2188.65   | 488.64    | 783.39    | 920.77   | 1.17             | 0.61               | -1.61             |         |
| 2498.00  | 38.94       | 56.40       | 2212.86   | 499.32    | 799.54    | 940.04   | 1.88             | 1.81               | -0.81             |         |
| 2528.00  | 38.56       | 56.78       | 2236.26   | 509.66    | 815.22    | 958.72   | 1.49             | -1.27              | 1.27              |         |
| 2556.00  | 38.56       | 56.28       | 2258.15   | 519.28    | 829.78    | 976.09   | 1.11             | 0.00               | -1.79             |         |
| 2588.00  | 37.56       | 56.90       | 2283.35   | 530.15    | 846.24    | 995.72   | 3.35             | -3.12              | 1.94              |         |
| 2619.00  | 36.56       | 57.03       | 2308.08   | 540.33    | 861.90    | 1014.32  | 3.24             | -3.23              | 0.42              |         |
| 2650.00  | 35.38       | 57.53       | 2333.17   | 550.17    | 877.22    | 1032.46  | 3.92             | -3.81              | 1.61              |         |



# Weatherford International Ltd.

## SURVEY REPORT



**Weatherford**

|                                            |                                   |                                     |                   |
|--------------------------------------------|-----------------------------------|-------------------------------------|-------------------|
| <b>Company:</b> WILLIAMS PRODUCTION        | <b>Date:</b> 10/9/2008            | <b>Time:</b> 13:41:15               | <b>Page:</b> 3    |
| <b>Field:</b> Rio Arriba Co., NMI (NAD 83) | <b>Co-ordinate(NE) Reference:</b> | <b>Well:</b> #6C, True North        |                   |
| <b>Site:</b> Rosa Unit #6C                 | <b>Vertical (TVD) Reference:</b>  | <b>SITE:</b> 6796.0                 |                   |
| <b>Well:</b> #6C                           | <b>Section (VS) Reference:</b>    | <b>Well:</b> (0.00N,0.00E,62.28Azi) |                   |
| <b>Wellpath:</b> 1                         | <b>Survey Calculation Method:</b> | <b>Minimum Curvature</b>            | <b>Db:</b> 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 |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|--------------------|-------------------|---------|
| 2681.00  | 34.50       | 57.40       | 2358.59   | 559.72    | 892.19    | 1050.15  | 2.85             | -2.84              | -0.42             |         |
| 2713.00  | 34.88       | 57.53       | 2384.90   | 569.52    | 907.55    | 1068.30  | 1.21             | 1.19               | 0.41              |         |
| 2745.00  | 35.00       | 57.40       | 2411.13   | 579.37    | 923.00    | 1086.56  | 0.44             | 0.37               | -0.41             |         |
| 2777.00  | 34.94       | 57.40       | 2437.35   | 589.26    | 938.45    | 1104.84  | 0.19             | -0.19              | 0.00              |         |
| 2808.00  | 35.06       | 57.40       | 2462.75   | 598.84    | 953.43    | 1122.55  | 0.39             | 0.39               | 0.00              |         |
| 2840.00  | 35.00       | 57.27       | 2488.95   | 608.75    | 968.89    | 1140.85  | 0.30             | -0.19              | -0.41             |         |
| 2872.00  | 33.81       | 57.90       | 2515.35   | 618.44    | 984.15    | 1158.87  | 3.88             | -3.72              | 1.97              |         |
| 2903.00  | 33.94       | 58.40       | 2541.09   | 627.56    | 998.83    | 1176.11  | 0.99             | 0.42               | 1.61              |         |
| 2935.00  | 34.25       | 58.02       | 2567.59   | 637.01    | 1014.08   | 1194.00  | 1.18             | 0.97               | -1.19             |         |
| 2966.00  | 33.88       | 57.40       | 2593.27   | 646.29    | 1028.76   | 1211.31  | 1.64             | -1.19              | -2.00             |         |
| 2998.00  | 32.69       | 57.03       | 2620.02   | 655.79    | 1043.52   | 1228.80  | 3.77             | -3.72              | -1.16             |         |
| 3029.00  | 32.06       | 57.15       | 2646.20   | 664.81    | 1057.46   | 1245.33  | 2.04             | -2.03              | 0.39              |         |
| 3061.00  | 31.81       | 57.03       | 2673.36   | 674.01    | 1071.67   | 1262.19  | 0.81             | -0.78              | -0.37             |         |
| 3091.00  | 31.44       | 56.65       | 2698.90   | 682.61    | 1084.83   | 1277.85  | 1.40             | -1.23              | -1.27             |         |
| 3123.00  | 30.63       | 57.03       | 2726.32   | 691.64    | 1098.65   | 1294.27  | 2.60             | -2.53              | 1.19              |         |
| 3154.00  | 30.38       | 56.65       | 2753.03   | 700.25    | 1111.82   | 1309.94  | 1.02             | -0.81              | -1.23             |         |
| 3186.00  | 29.81       | 56.65       | 2780.72   | 709.07    | 1125.22   | 1325.90  | 1.78             | -1.78              | 0.00              |         |
| 3218.00  | 29.00       | 56.78       | 2808.59   | 717.69    | 1138.36   | 1341.54  | 2.54             | -2.53              | 0.41              |         |
| 3249.00  | 27.94       | 56.53       | 2835.84   | 725.81    | 1150.70   | 1356.25  | 3.44             | -3.42              | -0.81             |         |
| 3280.00  | 26.69       | 57.28       | 2863.39   | 733.58    | 1162.62   | 1370.41  | 4.18             | -4.03              | 2.42              |         |
| 3312.00  | 24.81       | 56.90       | 2892.21   | 741.13    | 1174.29   | 1384.26  | 5.90             | -5.87              | -1.19             |         |
| 3343.00  | 24.63       | 56.53       | 2920.37   | 748.25    | 1185.13   | 1397.16  | 0.77             | -0.58              | -1.19             |         |
| 3374.00  | 24.63       | 57.03       | 2948.55   | 755.32    | 1195.93   | 1410.02  | 0.67             | 0.00               | 1.61              |         |
| 3406.00  | 25.13       | 57.28       | 2977.58   | 762.63    | 1207.24   | 1423.43  | 1.60             | 1.56               | 0.78              |         |
| 3437.00  | 25.25       | 57.03       | 3005.63   | 769.78    | 1218.33   | 1436.57  | 0.52             | 0.39               | -0.81             |         |
| 3469.00  | 24.75       | 57.15       | 3034.63   | 777.13    | 1229.68   | 1450.04  | 1.57             | -1.56              | 0.37              |         |
| 3500.00  | 24.05       | 58.15       | 3062.86   | 783.98    | 1240.50   | 1462.80  | 2.62             | -2.26              | 3.23              |         |
| 3532.00  | 23.38       | 59.65       | 3092.16   | 790.63    | 1251.52   | 1475.65  | 2.82             | -2.09              | 4.69              |         |
| 3564.00  | 23.50       | 59.15       | 3121.52   | 797.11    | 1262.47   | 1488.36  | 0.73             | 0.37               | -1.56             |         |
| 3596.00  | 24.00       | 58.15       | 3150.81   | 803.82    | 1273.48   | 1501.22  | 2.01             | 1.56               | -3.12             |         |
| 3626.00  | 22.38       | 57.15       | 3178.38   | 810.14    | 1283.46   | 1513.00  | 5.56             | -5.40              | -3.33             |         |
| 3658.00  | 21.19       | 56.78       | 3208.10   | 816.61    | 1293.42   | 1524.82  | 3.74             | -3.72              | -1.16             |         |
| 3690.00  | 21.25       | 56.90       | 3237.93   | 822.94    | 1303.11   | 1536.35  | 0.23             | 0.19               | 0.37              |         |
| 3722.00  | 20.88       | 56.78       | 3267.79   | 829.24    | 1312.74   | 1547.80  | 1.16             | -1.16              | -0.37             |         |
| 3753.00  | 20.25       | 57.15       | 3296.81   | 835.17    | 1321.87   | 1558.64  | 2.08             | -2.03              | 1.19              |         |
| 3785.00  | 19.75       | 57.28       | 3326.88   | 841.10    | 1331.07   | 1569.54  | 1.57             | -1.56              | 0.41              |         |
| 3816.00  | 19.44       | 57.53       | 3356.09   | 846.70    | 1339.83   | 1579.90  | 1.04             | -1.00              | 0.81              |         |
| 3848.00  | 18.06       | 60.15       | 3386.39   | 852.03    | 1348.63   | 1590.17  | 5.05             | -4.31              | 8.19              |         |
| 3879.00  | 16.44       | 62.03       | 3416.00   | 856.48    | 1356.67   | 1599.36  | 5.53             | -5.23              | 6.06              |         |
| 3911.00  | 15.69       | 63.90       | 3446.75   | 860.50    | 1364.55   | 1608.21  | 2.85             | -2.34              | 5.84              |         |
| 3943.00  | 14.75       | 64.15       | 3477.62   | 864.18    | 1372.11   | 1616.61  | 2.94             | -2.94              | 0.78              |         |
| 3974.00  | 12.75       | 64.40       | 3507.73   | 867.38    | 1378.74   | 1623.97  | 6.45             | -6.45              | 0.81              |         |
| 4006.00  | 11.63       | 63.27       | 3539.01   | 870.36    | 1384.81   | 1630.72  | 3.58             | -3.50              | -3.53             |         |
| 4037.00  | 11.19       | 62.40       | 3569.40   | 873.16    | 1390.26   | 1636.86  | 1.52             | -1.42              | -2.81             |         |
| 4068.00  | 10.13       | 60.78       | 3599.86   | 875.88    | 1395.31   | 1642.59  | 3.55             | -3.42              | -5.23             |         |
| 4099.00  | 9.19        | 58.90       | 3630.42   | 878.49    | 1399.81   | 1647.79  | 3.20             | -3.03              | -6.06             |         |
| 4131.00  | 8.69        | 58.40       | 3662.03   | 881.08    | 1404.06   | 1652.75  | 1.58             | -1.56              | -1.56             |         |
| 4161.00  | 8.44        | 56.53       | 3691.70   | 883.48    | 1407.82   | 1657.20  | 1.25             | -0.83              | -6.23             |         |
| 4193.00  | 7.63        | 54.78       | 3723.39   | 886.00    | 1411.52   | 1661.64  | 2.64             | -2.53              | -5.47             |         |
| 4225.00  | 6.50        | 53.03       | 3755.14   | 888.32    | 1414.70   | 1665.54  | 3.59             | -3.53              | -5.47             |         |
| 4256.00  | 5.56        | 52.03       | 3785.97   | 890.30    | 1417.29   | 1668.75  | 3.05             | -3.03              | -3.23             |         |
| 4287.00  | 4.69        | 54.53       | 3816.85   | 891.95    | 1419.50   | 1671.48  | 2.90             | -2.81              | 8.06              |         |
| 4319.00  | 4.06        | 56.28       | 3848.75   | 893.34    | 1421.51   | 1673.90  | 2.01             | -1.97              | 5.47              |         |



# Weatherford International Ltd.

## SURVEY REPORT

**Weatherford**

|                                    |                                                     |                |         |
|------------------------------------|-----------------------------------------------------|----------------|---------|
| Company: WILLIAMS PRODUCTION       | Date: 10/9/2008                                     | Time: 13:41:15 | Page: 4 |
| Field: Rio Arriba Co., NM (NAD 83) | Co-ordinate(NE) Reference: Well: #6C, True North    |                |         |
| Site: Rosa Unit #6C                | Vertical (TVD) Reference: SITE 6796.0               |                |         |
| Well: #6C                          | Section (VS) Reference: Well (0.00N,0.00E,62.28Azi) |                |         |
| 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      |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|--------------------|-------------------|--------------|
| 4351.00  | 3.50        | 55.53       | 3880.68   | 894.52    | 1423.26   | 1676.00  | 1.76             | -1.75              | -2.34             |              |
| 4382.00  | 2.94        | 52.78       | 3911.63   | 895.54    | 1424.67   | 1677.72  | 1.87             | -1.81              | -8.87             |              |
| 4414.00  | 2.19        | 49.40       | 3943.60   | 896.44    | 1425.79   | 1679.13  | 2.39             | -2.34              | -10.56            |              |
| 4444.00  | 1.50        | 48.15       | 3973.59   | 897.07    | 1426.52   | 1680.07  | 2.30             | -2.30              | -4.17             |              |
| 4476.00  | 1.31        | 53.65       | 4005.58   | 897.57    | 1427.12   | 1680.84  | 0.73             | -0.59              | 17.19             |              |
| 4508.00  | 1.13        | 45.90       | 4037.57   | 898.00    | 1427.64   | 1681.50  | 0.76             | -0.56              | -24.22            |              |
| 4538.00  | 1.19        | 53.53       | 4067.56   | 898.39    | 1428.11   | 1682.09  | 0.55             | 0.20               | 25.43             |              |
| 4566.00  | 1.44        | 62.28       | 4095.56   | 898.73    | 1428.65   | 1682.73  | 1.14             | 0.89               | 31.25             | LAST WFT SVY |
| 4620.00  | 1.44        | 62.28       | 4149.54   | 899.36    | 1429.85   | 1684.09  | 0.00             | 0.00               | 0.00              | PROJ TO BIT  |
| 8905.00  | 2.00        | 62.28       | 8432.59   | 959.19    | 1543.71   | 1812.70  | 0.01             | 0.01               | 0.00              | LAST RIG SVY |

### Casing Points

| MD<br>ft | TVD<br>ft | Diameter<br>in | Hole Size<br>in | Name                 |
|----------|-----------|----------------|-----------------|----------------------|
| 300.02   | 300.00    | 10.750         | 12.250          | 10 3/4"              |
| 4621.46  | 4151.00   | 0.000          | 0.000           | 7 5/8" Int. Csg. Pt. |

### Annotation

| MD<br>ft | TVD<br>ft |              |
|----------|-----------|--------------|
| 4566.00  | 4095.56   | LAST WFT SVY |
| 4620.00  | 4149.54   | PROJ TO BIT  |
| 8905.00  | 8432.59   | LAST RIG SVY |