

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN  
DUPLICATE

(See other instructions on  
reverse side)

FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995

5. LEASE DESIGNATION AND LEASE NO.  
SF-078769

6. IF INDIAN ALLOTTEE OR

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.  
ROSA UNIT #153B

9. API WELL NO.  
30-039-27603

10. FIELD AND POOL OR WILDCAT  
BLANCO MESAVERDE

11. SEC., T., R., M., OR BLOCK AND  
SURVEY OR AREA  
NE/4 SE/4 SEC 17-31N-5W

12. COUNTY OR  
RIO ARRIBA

13. STATE  
NEW MEXICO

19. ELEVATION CASINGHEAD

15. DATE  
SPUDDED  
10/21/2004

16. DATE T.D.  
REACHED  
11/12/04

17. DATE COMPLETED (READY TO PRODUCE)  
12/20/2004

14. PERMIT NO.

DATE ISSUED

18. ELEVATIONS (DK, RKB, RT, GR, ETC.)\*  
6323' GR

20. TOTAL DEPTH, MD & TVD  
8150' MD

21. PLUG, BACK T.D., MD & TVD  
8132' MD

22. IF MULTICOMP.,  
HOW MANY

23. INTERVALS  
DRILLED BY

ROTARY TOOLS  
x

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*  
BLANCO MESAVERDE 4796' - 5936'

25. WAS DIRECTIONAL SURVEY MADE  
YES

26. TYPE ELECTRIC AND OTHER LOGS RUN  
TMDL, GR, CCL & CBL

27. WAS WELL CORED  
NO

28. CASING REPORT (Report all strings set in well)

| CASING SIZE/GRADE | WEIGHT, LB./FT | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED |
|-------------------|----------------|----------------|-----------|---------------------------------|---------------|
| 10 3/4", K-55     | 40.5#          | 343'           | 14 3/4"   | 355 SX - SURFACE                |               |
| 7 7/8", K-55      | 26.4#          | 3642'          | 9 7/8"    | 720 SX - SURFACE                |               |

29. LINER RECORD

| SIZE              | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE                 | DEPTH SET (MD) | PACKER SET (MD) |
|-------------------|----------|-------------|---------------|-------------|----------------------|----------------|-----------------|
| 5 1/2", 17#, N-80 | 0'       | 7814'       | 275 SX        |             | 2-1/16", J-55, 3.25# | 5932'          | 6032'           |

31. PERFORATION RECORD (Interval, size, and number)

CH/MEN: 0000', 0000', 13', 44', 53', 63', 87', 96', 8024', 28', 32', 36', 40',  
44', 50', 76' & 80'. Total of 32, 0.34" holes

PLO: 0000', 0000', 13', 44', 53', 63', 87', 96', 8024', 28', 32', 36', 40', 44',  
50', 76' & 80'. Total of 36, 0.34" holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL<br>(MD) | AMOUNT AND KIND OF MATERIAL USED                                                       |
|------------------------|----------------------------------------------------------------------------------------|
| 4796' - 5615'          | Fraced w/ 9300# 14/30 LiteProp 125 & 5000# 20/40 brown sand<br>carried in slick water. |
| 5654' - 5936'          | Fraced w/ 9300# 14/30 LiteProp 125 & 8100# 20/40 brown sand<br>carried in slick water. |

33. PRODUCTION

| DATE OF FIRST PRODUCTION |                 | PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) |                           |            |           | WELL STATUS (PRODUCING OR SI) |                         |
|--------------------------|-----------------|----------------------------------------------------------------------|---------------------------|------------|-----------|-------------------------------|-------------------------|
|                          |                 | Flowing                                                              |                           |            |           | Producing                     |                         |
| DATE OF TEST             | TESTED          | CHOKE SIZE                                                           | PROD'N FOR TEST<br>PERIOD | OIL - BBL. | GAS - MCF | WATER - BBL.                  | GAS-OIL RATIO           |
| 01/15/05                 |                 | 2 1/2"                                                               | 3 hrs.                    |            | 198       |                               |                         |
| FLOW TBG PRESS           | CASING PRESSURE | CALCULATED 24-HOUR RATE                                              |                           | OIL - BBL. | GAS - MCF | WATER - BBL.                  | OIL GRAVITY-API (CORR.) |
| 115                      | 750             |                                                                      |                           |            |           |                               |                         |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TO BE SOLD

TEST WITNESSED BY: Larry Higgins

35. LIST OF ATTACHMENTS: SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Inacy Ross TITLE Sr. Production Analyst DATE July 10, 2006

7-12-06

| 37. SUMMARY OF POROUS ZONES. (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries). |       |        |                             |  |      | 38. GEOLOGIC MARKERS |                |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-----------------------------|--|------|----------------------|----------------|---------------------|
| FORMATION                                                                                                                                                                                                                                           | TOP   | BOTTOM | DESCRIPTION, CONTENTS, ETC. |  | NAME | TOP                  |                | TRUE VERTICAL DEPTH |
|                                                                                                                                                                                                                                                     |       |        |                             |  |      | NAME                 | MEASURED DEPTH |                     |
| PICTURED CLIFFS                                                                                                                                                                                                                                     | 2637' |        |                             |  |      |                      |                |                     |
| LEWIS                                                                                                                                                                                                                                               | 3167' |        |                             |  |      |                      |                |                     |
| CLIFFHOUSE                                                                                                                                                                                                                                          | 5387' |        |                             |  |      |                      |                |                     |
| MENEFEE                                                                                                                                                                                                                                             | 5432' |        |                             |  |      |                      |                |                     |
| POINT LOOKOUT                                                                                                                                                                                                                                       | 5642' |        |                             |  |      |                      |                |                     |
| MANCOS                                                                                                                                                                                                                                              | 5992' |        |                             |  |      |                      |                |                     |
| DAKOTA                                                                                                                                                                                                                                              | 7887' |        |                             |  |      |                      |                |                     |

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

|                                                                                                                                                |   |                             |                               |                               |                                                  |                                       |           |                                                          |  |
|------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------|-------------------------------|-------------------------------|--------------------------------------------------|---------------------------------------|-----------|----------------------------------------------------------|--|
| Operator<br><b>Williams Production Company</b>                                                                                                 |   |                             |                               |                               | Lease or Unit Name<br><b>Rosa Unit</b>           |                                       |           |                                                          |  |
| Test Type<br><input checked="" type="checkbox"/> <b>Initial</b> <input type="checkbox"/> <b>Annual</b> <input type="checkbox"/> <b>Special</b> |   |                             | Test Date<br><b>1/15/2005</b> |                               | Well Number<br><b>#153B (API # 30-039-27603)</b> |                                       |           |                                                          |  |
| Completion Date<br><b>12/20/2004</b>                                                                                                           |   | Total Depth<br><b>8150'</b> |                               | Plug Back TD<br><b>8132'</b>  |                                                  | Elevation<br><b>6323'</b>             |           | Unit    Sec    Twp    Rng<br><b>I    17    31N    5W</b> |  |
| Casing Size<br><b>5 1/2"</b>                                                                                                                   |   | Weight<br><b>17#</b>        |                               | Set At<br><b>7831'</b>        |                                                  | Perforations:<br><b>4796' - 5615'</b> |           | County<br><b>Rio Arriba</b>                              |  |
| Tubing Size<br><b>2 1/16"</b>                                                                                                                  |   | Weight<br><b>3.25#</b>      |                               | Set At<br><b>5932'</b>        |                                                  | Perforations:<br><b>5654' - 5936'</b> |           | Pool<br><b>Blanco MV</b>                                 |  |
| Type Well - Single-Bradenhead-GG or GO Multiple                                                                                                |   |                             |                               | Packer Set At<br><b>6032'</b> |                                                  | Formation<br><b>MV</b>                |           |                                                          |  |
| Producing Thru<br><b>Tubing</b>                                                                                                                |   | Reservoir Temp. oF          |                               | Mean Annual Temp. oF          |                                                  | Barometer Pressure - Pa               |           | Connection                                               |  |
| L                                                                                                                                              | H | Gq<br><b>0.6</b>            | %CO2                          | %N2                           | %H2S                                             | Prover<br><b>3/4"</b>                 | Meter Run | Taps                                                     |  |

  

| FLOW DATA |                  |                  |                  | TUBING DATA    |                  | CASING DATA    |                  |                |                  |
|-----------|------------------|------------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| NO        | Prover Line Size | X Orifice Size   | Pressure p.s.i.g | Temperature oF | Pressure p.s.i.g | Temperature oF | Pressure p.s.i.g | Temperature oF | Duration of Flow |
| SI        |                  | <b>2" X 3/4"</b> |                  |                | <b>800</b>       | <b>43</b>      | <b>920</b>       |                | <b>0</b>         |
| 1         |                  |                  |                  |                | <b>110</b>       | <b>60</b>      | <b>850</b>       |                | <b>0.5 hr</b>    |
| 2         |                  |                  |                  |                | <b>110</b>       | <b>63</b>      | <b>815</b>       |                | <b>1.0 hr</b>    |
| 3         |                  |                  |                  |                | <b>110</b>       | <b>65</b>      | <b>795</b>       |                | <b>1.5 hrs</b>   |
| 4         |                  |                  |                  |                | <b>110</b>       | <b>66</b>      | <b>775</b>       |                | <b>2.0 hrs</b>   |
| 5         |                  |                  |                  |                | <b>115</b>       | <b>68</b>      | <b>750</b>       |                | <b>3.0 hrs</b>   |

  

| RATE OF FLOW CALCULATION |                        |      |             |                      |                   |                             |                      |  |  |
|--------------------------|------------------------|------|-------------|----------------------|-------------------|-----------------------------|----------------------|--|--|
| NO                       | Coefficient (24 Hours) | hwPm | Pressure Pm | Flow Temp. Factor Fl | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |  |  |
| 1                        | <b>9.604</b>           |      | <b>127</b>  | <b>0.9924</b>        | <b>1.29</b>       | <b>1.013</b>                | <b>1582</b>          |  |  |
| 2                        |                        |      |             |                      |                   |                             |                      |  |  |
| 3                        |                        |      |             |                      |                   |                             |                      |  |  |
| 4                        |                        |      |             |                      |                   |                             |                      |  |  |

  

| NO | Pr | Temp. oR | Tr | Z | Gas Liquid Hydrocarbon Ration              |  |  | Mcf/bbl.       |
|----|----|----------|----|---|--------------------------------------------|--|--|----------------|
| 1  |    |          |    |   | A.P.I Gravity of Liquid Hydrocabrons _____ |  |  | Deq.           |
| 2  |    |          |    |   | Specific Gravity Separator _____           |  |  | XXXXXX         |
| 3  |    |          |    |   | Specific Gravity Flowing Fluid xxxxxxxxxx  |  |  |                |
| 4  |    |          |    |   | Critical Pressure _____ p.s.i.a.           |  |  | _____ p.s.i.a. |
| 5  |    |          |    |   | Critical Temperature _____ R               |  |  | _____ R        |

  

| Pc | 932 | Pc2        | 868624        |               |
|----|-----|------------|---------------|---------------|
| NO | Ptl | Pw         | Pw2           | Pc2-Pw2       |
| 1  |     | <b>762</b> | <b>580644</b> | <b>287980</b> |
| 2  |     |            |               |               |
| 3  |     |            |               |               |
| 4  |     |            |               |               |

  

|                                |  |                |                      |                      |
|--------------------------------|--|----------------|----------------------|----------------------|
| Absolute Open Flow <b>3620</b> |  | Mcf/d @ 15.025 | Angle of Slope _____ | Slope, n <b>0.75</b> |
|--------------------------------|--|----------------|----------------------|----------------------|

  

|                         |                                       |                                     |             |
|-------------------------|---------------------------------------|-------------------------------------|-------------|
| Remarks:                |                                       |                                     |             |
| Approved By Commission: | Conducted By:<br><b>Larry Higgins</b> | Calculated By:<br><b>Tracy Ross</b> | Checked By: |

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

|                                                        |   |                             |                               |                               |                                                  |                                       |                         |                                                           |            |
|--------------------------------------------------------|---|-----------------------------|-------------------------------|-------------------------------|--------------------------------------------------|---------------------------------------|-------------------------|-----------------------------------------------------------|------------|
| Operator<br><b>Williams Production Company</b>         |   |                             |                               |                               | Lease or Unit Name<br><b>Rosa Unit</b>           |                                       |                         |                                                           |            |
| Test Type<br><b>X Initial      Annual      Special</b> |   |                             | Test Date<br><b>1/15/2005</b> |                               | Well Number<br><b>#153B (API # 30-039-27603)</b> |                                       |                         |                                                           |            |
| Completion Date<br><b>12/20/2004</b>                   |   | Total Depth<br><b>8150'</b> |                               | Plug Back TD<br><b>8132'</b>  |                                                  | Elevation<br><b>6323'</b>             |                         | Unit    Sec    Twp    Rng<br><b>I      17    31N   5W</b> |            |
| Casing Size<br><b>5 1/2"</b>                           |   | Weight<br><b>17#</b>        |                               | Set At<br><b>7831'</b>        |                                                  | Perforations:<br><b>4796' - 5615'</b> |                         | County<br><b>Rio Arriba</b>                               |            |
| Tubing Size<br><b>2 1/16"</b>                          |   | Weight<br><b>3.25#</b>      |                               | Set At<br><b>5932'</b>        |                                                  | Perforations:<br><b>5654' - 5936'</b> |                         | Pool<br><b>Blanco MV</b>                                  |            |
| Type Well - Single-Bradenhead-GG or GO Multiple        |   |                             |                               | Packer Set At<br><b>6032'</b> |                                                  |                                       | Formation<br><b>MV</b>  |                                                           |            |
| Producing Thru<br><b>Tubing</b>                        |   | Reservoir Temp. oF          |                               | Mean Annual Temp. oF          |                                                  |                                       | Barometer Pressure - Pa |                                                           | Connection |
| L                                                      | H | Gq<br><b>0.6</b>            | %CO2                          | %N2                           | %H2S                                             | Prover<br><b>3/4"</b>                 | Meter Run               | Taps                                                      |            |

  

| FLOW DATA |                  |                |                  | TUBING DATA    |                  | CASING DATA    |                  |                |                  |
|-----------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| NO        | Prover Line Size | X Orifice Size | Pressure p.s.i.q | Temperature oF | Pressure p.s.i.q | Temperature oF | Pressure p.s.i.q | Temperature oF | Duration of Flow |
| SI        | <b>2" X 3/4"</b> |                |                  |                | <b>800</b>       | <b>43</b>      | <b>920</b>       |                | <b>0</b>         |
| 1         |                  |                |                  |                | <b>110</b>       | <b>60</b>      | <b>850</b>       |                | <b>0.5 hr</b>    |
| 2         |                  |                |                  |                | <b>110</b>       | <b>63</b>      | <b>815</b>       |                | <b>1.0 hr</b>    |
| 3         |                  |                |                  |                | <b>110</b>       | <b>65</b>      | <b>795</b>       |                | <b>1.5 hrs</b>   |
| 4         |                  |                |                  |                | <b>110</b>       | <b>66</b>      | <b>775</b>       |                | <b>2.0 hrs</b>   |
| 5         |                  |                |                  |                | <b>115</b>       | <b>68</b>      | <b>750</b>       |                | <b>3.0 hrs</b>   |

  

| RATE OF FLOW CALCULATION |                        |  |  |  |      |             |                      |                   |                             |                      |
|--------------------------|------------------------|--|--|--|------|-------------|----------------------|-------------------|-----------------------------|----------------------|
| NO                       | Coefficient (24 Hours) |  |  |  | hwPm | Pressure Pm | Flow Temp. Factor Fl | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1                        | <b>9.604</b>           |  |  |  |      | <b>127</b>  | <b>0.9924</b>        | <b>1.29</b>       | <b>1.013</b>                | <b>1582</b>          |
| 2                        |                        |  |  |  |      |             |                      |                   |                             |                      |
| 3                        |                        |  |  |  |      |             |                      |                   |                             |                      |
| 4                        |                        |  |  |  |      |             |                      |                   |                             |                      |

  

| NO | Pr | Temp. oR | Tr | Z | Gas Liquid Hydrocarbon Ration              |  |  |  | Mcf/bbl.      |
|----|----|----------|----|---|--------------------------------------------|--|--|--|---------------|
| 1  |    |          |    |   | A.P.I Gravity of Liquid Hydrocabrons _____ |  |  |  | Deq.          |
| 2  |    |          |    |   | Specific Gravity Separator _____           |  |  |  | XXXXXX        |
| 3  |    |          |    |   | Specific Gravity Flowing Fluid xxxxxxxxxx  |  |  |  |               |
| 4  |    |          |    |   | Critical Pressure _____ p.s.i.a.           |  |  |  | ____ p.s.i.a. |
| 5  |    |          |    |   | Critical Temperature _____ R               |  |  |  | ____ R        |

  

| NO | Pc         | Pt1 | Pw         | Pw2           | Pc2-Pw2       | (1) $\frac{Pc2}{Pc2-Pw2} =$ |  | (2) $\frac{Pc2^n}{Pc2-Pw2} =$ |  |
|----|------------|-----|------------|---------------|---------------|-----------------------------|--|-------------------------------|--|
| 1  | <b>932</b> |     | <b>762</b> | <b>580644</b> | <b>287980</b> | <b>3.016265</b>             |  | <b>2.2887698</b>              |  |
| 2  |            |     |            |               |               |                             |  |                               |  |
| 3  |            |     |            |               |               |                             |  |                               |  |
| 4  |            |     |            |               |               |                             |  |                               |  |

  

| Absolute Open Flow |  | Mcf @ 15.025 | Angle of Slope | Slope, n    |
|--------------------|--|--------------|----------------|-------------|
| <b>3620</b>        |  |              |                | <b>0.75</b> |

  

|                         |                                       |                                     |             |
|-------------------------|---------------------------------------|-------------------------------------|-------------|
| Remarks:                |                                       |                                     |             |
| Approved By Commission: | Conducted By:<br><b>Larry Higgins</b> | Calculated By:<br><b>Tracy Ross</b> | Checked By: |

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

|                                                        |   |                             |                               |                               |                                                  |                                       |           |                                                              |  |
|--------------------------------------------------------|---|-----------------------------|-------------------------------|-------------------------------|--------------------------------------------------|---------------------------------------|-----------|--------------------------------------------------------------|--|
| Operator<br><b>Williams Production Company</b>         |   |                             |                               |                               | Lease or Unit Name<br><b>Rosa Unit</b>           |                                       |           |                                                              |  |
| Test Type<br><b>X Initial      Annual      Special</b> |   |                             | Test Date<br><b>1/15/2005</b> |                               | Well Number<br><b>#153B (API # 30-039-27603)</b> |                                       |           |                                                              |  |
| Completion Date<br><b>12/20/2004</b>                   |   | Total Depth<br><b>8150'</b> |                               | Plug Back TD<br><b>8132'</b>  |                                                  | Elevation<br><b>6323'</b>             |           | Unit    Sec    Twp    Rng<br><b>I      17      31N    5W</b> |  |
| Casing Size<br><b>5 1/2"</b>                           |   | Weight<br><b>17#</b>        |                               | Set At<br><b>7831'</b>        |                                                  | Perforations:<br><b>4796' - 5615'</b> |           | County<br><b>Rio Arriba</b>                                  |  |
| Tubing Size<br><b>2 1/16"</b>                          |   | Weight<br><b>3.25#</b>      |                               | Set At<br><b>5932'</b>        |                                                  | Perforations:<br><b>5654' - 5936'</b> |           | Pool<br><b>Blanco MV</b>                                     |  |
| Type Well - Single-Bradenhead-GG or GO Multiple        |   |                             |                               | Packer Set At<br><b>6032'</b> |                                                  | Formation<br><b>MV</b>                |           |                                                              |  |
| Producing Thru<br><b>Tubing</b>                        |   | Reservoir Temp. oF          |                               | Mean Annual Temp. oF          |                                                  | Barometer Pressure - Pa               |           | Connection                                                   |  |
| L                                                      | H | Gq<br><b>0.6</b>            | %CO2                          | %N2                           | %H2S                                             | Prover<br><b>3/4"</b>                 | Meter Run | Taps                                                         |  |

  

| FLOW DATA |                  |                |                  | TUBING DATA    |                  | CASING DATA    |                  |                |                  |
|-----------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| NO        | Prover Line Size | X Orifice Size | Pressure p.s.i.g | Temperature oF | Pressure p.s.i.g | Temperature oF | Pressure p.s.i.g | Temperature oF | Duration of Flow |
| SI        | <b>2" X 3/4"</b> |                |                  |                | <b>800</b>       | <b>43</b>      | <b>920</b>       |                | <b>0</b>         |
| 1         |                  |                |                  |                | <b>110</b>       | <b>60</b>      | <b>850</b>       |                | <b>0.5 hr</b>    |
| 2         |                  |                |                  |                | <b>110</b>       | <b>63</b>      | <b>815</b>       |                | <b>1.0 hr</b>    |
| 3         |                  |                |                  |                | <b>110</b>       | <b>65</b>      | <b>795</b>       |                | <b>1.5 hrs</b>   |
| 4         |                  |                |                  |                | <b>110</b>       | <b>66</b>      | <b>775</b>       |                | <b>2.0 hrs</b>   |
| 5         |                  |                |                  |                | <b>115</b>       | <b>68</b>      | <b>750</b>       |                | <b>3.0 hrs</b>   |

  

| RATE OF FLOW CALCULATION |                        |  |  |  |      |             |                      |                   |                             |                      |
|--------------------------|------------------------|--|--|--|------|-------------|----------------------|-------------------|-----------------------------|----------------------|
| NO                       | Coefficient (24 Hours) |  |  |  | hwPm | Pressure Pm | Flow Temp. Factor Fl | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1                        | <b>9.604</b>           |  |  |  |      | <b>127</b>  | <b>0.9924</b>        | <b>1.29</b>       | <b>1.013</b>                | <b>1582</b>          |
| 2                        |                        |  |  |  |      |             |                      |                   |                             |                      |
| 3                        |                        |  |  |  |      |             |                      |                   |                             |                      |
| 4                        |                        |  |  |  |      |             |                      |                   |                             |                      |

  

| NO | Pr | Temp. oR | Tr | Z | Gas Liquid Hydrocarbon Ration              | Mcf/bbl.       |
|----|----|----------|----|---|--------------------------------------------|----------------|
| 1  |    |          |    |   | A.P.I Gravity of Liquid Hydrocabrons _____ | Deq.           |
| 2  |    |          |    |   | Specific Gravity Separator _____           | XXXXXX         |
| 3  |    |          |    |   | Specific Gravity Flowing Fluid xxxxxxxxxx  |                |
| 4  |    |          |    |   | Critical Pressure _____ p.s.i.a.           | _____ p.s.i.a. |
| 5  |    |          |    |   | Critical Temperature _____ R               | _____ R        |

  

|    |            |            |               |               |
|----|------------|------------|---------------|---------------|
| Pc | <b>932</b> | Pc2        | <b>868624</b> |               |
| NO | Ptl        | Pw         | Pw2           | Pc2-Pw2       |
| 1  |            | <b>762</b> | <b>580644</b> | <b>287980</b> |
| 2  |            |            |               |               |
| 3  |            |            |               |               |
| 4  |            |            |               |               |

  

|                                |  |                |                      |                      |
|--------------------------------|--|----------------|----------------------|----------------------|
| Absolute Open Flow <b>3620</b> |  | Mcf/d @ 15.025 | Angle of Slope _____ | Slope, n <b>0.75</b> |
|--------------------------------|--|----------------|----------------------|----------------------|

  

|                         |                                       |                                     |             |
|-------------------------|---------------------------------------|-------------------------------------|-------------|
| Remarks:                |                                       |                                     |             |
| Approved By Commission: | Conducted By:<br><b>Larry Higgins</b> | Calculated By:<br><b>Tracy Ross</b> | Checked By: |

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

|                                                        |   |                             |                               |                               |                                                  |                                       |           |                                                              |  |
|--------------------------------------------------------|---|-----------------------------|-------------------------------|-------------------------------|--------------------------------------------------|---------------------------------------|-----------|--------------------------------------------------------------|--|
| Operator<br><b>Williams Production Company</b>         |   |                             |                               |                               | Lease or Unit Name<br><b>Rosa Unit</b>           |                                       |           |                                                              |  |
| Test Type<br><b>X Initial      Annual      Special</b> |   |                             | Test Date<br><b>1/15/2005</b> |                               | Well Number<br><b>#153B (API # 30-039-27603)</b> |                                       |           |                                                              |  |
| Completion Date<br><b>12/20/2004</b>                   |   | Total Depth<br><b>8150'</b> |                               | Plug Back TD<br><b>8132'</b>  |                                                  | Elevation<br><b>6323'</b>             |           | Unit    Sec    Twp    Rng<br><b>I      17      31N    5W</b> |  |
| Casing Size<br><b>5 1/2"</b>                           |   | Weight<br><b>17#</b>        |                               | Set At<br><b>7831'</b>        |                                                  | Perforations:<br><b>4796' - 5615'</b> |           | County<br><b>Rio Arriba</b>                                  |  |
| Tubing Size<br><b>2 1/16"</b>                          |   | Weight<br><b>3.25#</b>      |                               | Set At<br><b>5932'</b>        |                                                  | Perforations:<br><b>5654' - 5936'</b> |           | Pool<br><b>Blanco MV</b>                                     |  |
| Type Well - Single-Bradenhead-GG or GO Multiple        |   |                             |                               | Packer Set At<br><b>6032'</b> |                                                  | Formation<br><b>MV</b>                |           |                                                              |  |
| Producing Thru<br><b>Tubing</b>                        |   | Reservoir Temp. oF          |                               | Mean Annual Temp. oF          |                                                  | Barometer Pressure - Pa               |           | Connection                                                   |  |
| L                                                      | H | Gq<br><b>0.6</b>            | %CO2                          | %N2                           | %H2S                                             | Prover<br><b>3/4"</b>                 | Meter Run | Taps                                                         |  |

  

| FLOW DATA |                  |                |                  | TUBING DATA    |                  | CASING DATA    |                  |                |                  |
|-----------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| NO        | Prover Line Size | X Orifice Size | Pressure p.s.i.g | Temperature oF | Pressure p.s.i.g | Temperature oF | Pressure p.s.i.g | Temperature oF | Duration of Flow |
| SI        | <b>2" X 3/4"</b> |                |                  |                | <b>800</b>       | <b>43</b>      | <b>920</b>       |                | <b>0</b>         |
| 1         |                  |                |                  |                | <b>110</b>       | <b>60</b>      | <b>850</b>       |                | <b>0.5 hr</b>    |
| 2         |                  |                |                  |                | <b>110</b>       | <b>63</b>      | <b>815</b>       |                | <b>1.0 hr</b>    |
| 3         |                  |                |                  |                | <b>110</b>       | <b>65</b>      | <b>795</b>       |                | <b>1.5 hrs</b>   |
| 4         |                  |                |                  |                | <b>110</b>       | <b>66</b>      | <b>775</b>       |                | <b>2.0 hrs</b>   |
| 5         |                  |                |                  |                | <b>115</b>       | <b>68</b>      | <b>750</b>       |                | <b>3.0 hrs</b>   |

  

| RATE OF FLOW CALCULATION |                        |  |  |  |      |             |                      |                   |                             |                      |
|--------------------------|------------------------|--|--|--|------|-------------|----------------------|-------------------|-----------------------------|----------------------|
| NO                       | Coefficient (24 Hours) |  |  |  | hwPm | Pressure Pm | Flow Temp. Factor Fl | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1                        | <b>9.604</b>           |  |  |  |      | <b>127</b>  | <b>0.9924</b>        | <b>1.29</b>       | <b>1.013</b>                | <b>1582</b>          |
| 2                        |                        |  |  |  |      |             |                      |                   |                             |                      |
| 3                        |                        |  |  |  |      |             |                      |                   |                             |                      |
| 4                        |                        |  |  |  |      |             |                      |                   |                             |                      |

  

| NO | Pr | Temp. oR | Tr | Z | Gas Liquid Hydrocarbon Ration              | Mcf/bbl.       |
|----|----|----------|----|---|--------------------------------------------|----------------|
| 1  |    |          |    |   | A.P.I Gravity of Liquid Hydrocabrons _____ | Deq.           |
| 2  |    |          |    |   | Specific Gravity Separator _____           | XXXXXX         |
| 3  |    |          |    |   | Specific Gravity Flowing Fluid xxxxxxxxxx  |                |
| 4  |    |          |    |   | Critical Pressure _____ p.s.i.a.           | _____ p.s.i.a. |
| 5  |    |          |    |   | Critical Temperature _____ R               | _____ R        |

  

| NO | Pt1 | Pw         | Pw2           | Pc2-Pw2       | (1) $\frac{Pc2}{Pc2-Pw2} =$ | (2) $\frac{Pc2^n}{Pc2-Pw2} =$ |
|----|-----|------------|---------------|---------------|-----------------------------|-------------------------------|
| 1  |     | <b>762</b> | <b>580644</b> | <b>287980</b> | <b>3.016265</b>             | <b>2.2887698</b>              |
| 2  |     |            |               |               |                             |                               |
| 3  |     |            |               |               |                             |                               |
| 4  |     |            |               |               |                             |                               |

  

|                                |  |              |                      |                      |
|--------------------------------|--|--------------|----------------------|----------------------|
| Absolute Open Flow <b>3620</b> |  | Mcf @ 15.025 | Angle of Slope _____ | Slope, n <b>0.75</b> |
|--------------------------------|--|--------------|----------------------|----------------------|

  

|                         |                                       |                                     |             |
|-------------------------|---------------------------------------|-------------------------------------|-------------|
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