

**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>10/9/2001</b> |                              | Well Number<br><b>#34B</b>             |                                     |                          |                                                          |      |
| Completion Date<br><b>9/28/2001</b>                    |   | Total Depth<br><b>6220'</b> |                               | Plug Back TD<br><b>6194'</b> |                                        | Elevation<br><b>6491'</b>           |                          | Unit    Sec    Twp    Rng<br><b>J    36    32N    6W</b> |      |
| Casing Size<br><b>4 1/2"</b>                           |   | Weight<br><b>10.5#</b>      |                               | Set At<br><b>6218'</b>       |                                        | Perforations:<br><b>4798 - 5723</b> |                          | County<br><b>Rio Arriba</b>                              |      |
| Tubing Size<br><b>2-3/8"</b>                           |   | Weight<br><b>4.7#</b>       |                               | Set At<br><b>6060'</b>       |                                        | Perforations:<br><b>5778 - 6060</b> |                          | Pool<br><b>Blanco MV</b>                                 |      |
| Type Well - Single-Bradenhead-GG or GO Multiple        |   |                             |                               |                              | Packer Set                             |                                     | Information<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>860</b>       | <b>61</b>      | <b>860</b>       |                | <b>0</b>         |
| 1         |                  |                  |                  |                | <b>215</b>       | <b>60</b>      | <b>820</b>       |                | <b>0.5 hr</b>    |
| 2         |                  |                  |                  |                | <b>215</b>       | <b>60</b>      | <b>810</b>       |                | <b>1.0 hr</b>    |
| 3         |                  |                  |                  |                | <b>215</b>       | <b>61</b>      | <b>800</b>       |                | <b>1.5 hrs</b>   |
| 4         |                  |                  |                  |                | <b>215</b>       | <b>63</b>      | <b>790</b>       |                | <b>2.0 hrs</b>   |
| 5         |                  |                  |                  |                | <b>215</b>       | <b>64</b>      | <b>780</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>227</b>  | <b>0.9962</b>        | <b>1.29</b>       | <b>1.02</b>                 | <b>2858</b>         |
| 2                        |                        |  |  |  |      |             |                      |                   |                             |                     |
| 3                        |                        |  |  |  |      |             |                      |                   |                             |                     |
| 4                        |                        |  |  |  |      |             |                      |                   |                             |                     |

  

| NO | Pr | Temp. oR | Tr | Z | Gas Liquid Hydrocarbon Ratio               | Mcft/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>872</b> | Pc2        | <b>760384</b> |               |
| NO | Pt1        | Pw         | Pw2           | Pc2-Pw2       |
| 1  |            | <b>792</b> | <b>627264</b> | <b>133120</b> |
| 2  |            |            |               |               |
| 3  |            |            |               |               |
| 4  |            |            |               |               |

  

|                    |  |              |               |                |          |             |
|--------------------|--|--------------|---------------|----------------|----------|-------------|
| Absolute Open Flow |  | <b>10559</b> | Mcfd @ 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: |