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State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-122  
Revised October, 1999

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# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

|                                                                                                                           |                             |                                          |                                  |                                                           |                                                                                                      |                                                     |                           |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------|----------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------|
| Operator<br><b>READ &amp; STEVENS INC</b>                                                                                 |                             |                                          |                                  | Lease or Unit Name<br><b>BANDI STATE</b>                  |                                                                                                      |                                                     |                           |
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                             |                                          |                                  | Test Date<br><b>8/31/00</b>                               |                                                                                                      | Well No.<br><b>2</b>                                |                           |
| Completion Date<br><b>9-8-00</b>                                                                                          |                             | Total Depth<br><b>10750' 10809'</b>      |                                  | Plug Back TD<br><b>10654</b>                              |                                                                                                      | Elevation<br><b>7322</b>                            |                           |
| Csg. Size<br><b>4 1/2</b>                                                                                                 | Wt.<br><b>11.6</b>          | d<br><b>4</b>                            | Set At<br><b>10750</b>           | Perforations:<br>From: <b>10531</b> To: <b>10589</b>      |                                                                                                      | Unit Ltr - Sec - TWP - Rge<br><b>N 10 23S 26W E</b> |                           |
| Tbg. Size<br><b>2 3/8</b>                                                                                                 | Wt.<br><b>4.7</b>           | d<br><b>1.995</b>                        | Set At<br><b>10388</b>           | Perforations:<br>From: To:                                |                                                                                                      | County<br><b>EDDY</b>                               |                           |
| Type Well-Single-Bradenhead-G.G. or G.O. Multiple<br><b>SINGLE</b>                                                        |                             |                                          |                                  | Packer Set At<br><b>10388</b>                             |                                                                                                      | Formation<br><b>STRAWN</b>                          |                           |
| Producing Thru<br>TUBING                                                                                                  |                             | Reservoir Temp. °F<br><b>178.2</b>       |                                  | Mean Annual Temp. °F<br><b>60</b>                         |                                                                                                      | Baro. Press. - P <sub>a</sub><br><b>13.2</b>        |                           |
| Connection<br><b>AIR</b>                                                                                                  |                             |                                          |                                  |                                                           |                                                                                                      |                                                     |                           |
| L<br><b>10425</b>                                                                                                         | H<br><b>10425</b>           | Gg<br><b>0.657</b>                       | %CO <sub>2</sub><br><b>0.675</b> | %N <sub>2</sub><br><b>0.708</b>                           | %H <sub>2</sub> S<br><b>N/A</b>                                                                      | Prover<br><b>N/A</b>                                | Meter Run<br><b>4.026</b> |
| Taps<br><b>FLG</b>                                                                                                        |                             |                                          |                                  |                                                           |                                                                                                      |                                                     |                           |
| FLOW DATA                                                                                                                 |                             |                                          |                                  | TUBING DATA                                               |                                                                                                      | CASING DATA                                         |                           |
| No.                                                                                                                       | Prover<br>Line<br>Size      | Orifice<br>x<br>Size                     | Press<br>p.s.i.g.                | Diff.<br>h <sub>w</sub>                                   | Temp.<br>°F                                                                                          | Press<br>p.s.i.g.                                   | Temp.<br>°F               |
| SI                                                                                                                        |                             |                                          |                                  |                                                           |                                                                                                      |                                                     |                           |
| 1                                                                                                                         | 4.026 X 1.000               |                                          | 170                              | 4                                                         | 90                                                                                                   | 3930                                                | N/A                       |
| 2                                                                                                                         | 4.026 X 1.000               |                                          | 170                              | 16                                                        | 98                                                                                                   | 3824                                                |                           |
| 3                                                                                                                         | 4.026 X 1.000               |                                          | 180                              | 52                                                        | 96                                                                                                   | 3602                                                |                           |
| 4                                                                                                                         | 4.026 X 1.000               |                                          | 420                              | 90                                                        | 80                                                                                                   | 2715                                                |                           |
| 5                                                                                                                         |                             |                                          |                                  |                                                           |                                                                                                      |                                                     |                           |
| RATE OF FLOW CALCULATIONS                                                                                                 |                             |                                          |                                  |                                                           |                                                                                                      |                                                     |                           |
| No.                                                                                                                       | COEFFICIENT<br>(24 Hour)    | $\sqrt{h_w P_m}$                         | Pressure<br>P <sub>m</sub>       | Flow Temp.<br>Factor Ft.                                  | Gravity Factor<br>F <sub>g</sub>                                                                     | Super Compress<br>Factor F <sub>pv</sub>            | Rate of Flow<br>Q, Mcfd   |
| 1                                                                                                                         | 4.753                       | 27                                       | 183.2                            | 0.9723                                                    | 1.234                                                                                                | 1.047                                               | 161                       |
| 2                                                                                                                         | 4.753                       | 54.14                                    | 183.2                            | 0.9653                                                    | 1.234                                                                                                | 1.044                                               | 320                       |
| 3                                                                                                                         | 4.753                       | 100.2                                    | 193.2                            | 0.9671                                                    | 1.234                                                                                                | 1.045                                               | 593                       |
| 4                                                                                                                         | 4.753                       | 197.4                                    | 433.2                            | 0.9813                                                    | 1.234                                                                                                | 1.048                                               | 1190                      |
| 5                                                                                                                         |                             |                                          |                                  |                                                           |                                                                                                      |                                                     |                           |
| No.                                                                                                                       | P <sub>r</sub>              | Temp. °R                                 | T <sub>r</sub>                   | Z                                                         | Gas Liquid Hydrocarbon Ratio <b>47.167</b> Mcf bbl.                                                  |                                                     |                           |
| 1                                                                                                                         | 0.81                        | 550                                      | 1.48                             | 0.912                                                     | A.P. I. Gravity of Liquid Hydrocarbons <b>56.4</b> Deg.                                              |                                                     |                           |
| 2                                                                                                                         | 0.82                        | 558                                      | 1.5                              | 0.918                                                     | Specific Gravity Separator Gas <b>0.657</b> XXXXXX                                                   |                                                     |                           |
| 3                                                                                                                         | 0.82                        | 556                                      | 1.49                             | 0.916                                                     | Specific Gravity Flowing Fluid XXXXX                                                                 |                                                     |                           |
| 4                                                                                                                         | 0.8                         | 540                                      | 1.45                             | 0.91                                                      | Critical Pressure <b>673</b> P.S.I.A. <b>671</b> P.S.I.A.                                            |                                                     |                           |
| 5                                                                                                                         |                             |                                          |                                  |                                                           | Critical Temperature <b>371</b> R. <b>391</b> R.                                                     |                                                     |                           |
| P <sub>c</sub> <b>3992.2</b> P <sub>c2</sub> <b>15937.7</b>                                                               |                             |                                          |                                  |                                                           |                                                                                                      |                                                     |                           |
| No.                                                                                                                       | P <sub>t</sub> <sup>2</sup> | P <sub>w</sub>                           | P <sub>w</sub> <sup>2</sup>      | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $P_c^2 = \frac{1.886}{P_c^2 - P_w^2}$ (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.515$ |                                                     |                           |
| 1                                                                                                                         |                             | 3943.3                                   | 15549.7                          | 387.9                                                     |                                                                                                      |                                                     |                           |
| 2                                                                                                                         |                             | 3837.7                                   | 14727.6                          | 1210                                                      |                                                                                                      |                                                     |                           |
| 3                                                                                                                         |                             | 3616.8                                   | 13081.4                          | 2856.2                                                    |                                                                                                      |                                                     |                           |
| 4                                                                                                                         |                             | 2735.9                                   | 7485.4                           | 8452.3                                                    |                                                                                                      |                                                     |                           |
| 5                                                                                                                         |                             |                                          |                                  |                                                           |                                                                                                      |                                                     |                           |
| Absolute Open Flow <b>1,802.80</b> Mcfd @ 15.025                                                                          |                             |                                          |                                  | Angle of Slope (°): <b>56.771</b>                         |                                                                                                      | Slope n: <b>0.6551</b>                              |                           |
| Remarks: <b>*WELL MADE 2 BBLS OF 56.4 API GRAVITY CONDENSATE DURING TEST.</b>                                             |                             |                                          |                                  |                                                           |                                                                                                      |                                                     |                           |
| Approved By Division:                                                                                                     |                             | Conducted By:<br><b>PRO WELL TESTING</b> |                                  | Calculated By:<br><b>MB</b>                               |                                                                                                      | Checked By:<br><b>BM</b>                            |                           |