

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

Form C-122  
 Revised 9-1-65

|                                                                                                                           |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------|-----------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            | Test Date<br>8/2/76                           |                         |
| Company<br>Tenneco Oil Company                                                                                            |                             |                         |                             | Connection                                                |                                                                                                                                                                                                                                                                            |                                               |                         |
| Pool<br>Blanco Mesa Verde                                                                                                 |                             |                         |                             | Formation<br>Mesa Verde                                   |                                                                                                                                                                                                                                                                            | Unit<br>0                                     |                         |
| Completion Date<br>7/22/76                                                                                                |                             | Total Depth<br>5155'    |                             | Plug Back TD<br>5103'                                     |                                                                                                                                                                                                                                                                            | Elevation<br>5864' GL                         |                         |
| Csg. Size<br>4 1/2"                                                                                                       |                             | Wt.<br>10.5 #           |                             | Set At<br>5153'                                           |                                                                                                                                                                                                                                                                            | Perforations:<br>From 4901' To 5056'          |                         |
| Thg. Size<br>2 3/8"                                                                                                       |                             | Wt.<br>4.7 #            |                             | Set At<br>5072'                                           |                                                                                                                                                                                                                                                                            | Perforations:<br>From 4448' To 4681'          |                         |
| Type Well -- Single -- Bordenhead -- G.G. or G.O. Multiple<br>Single                                                      |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            | Packer Set At<br>None set                     |                         |
| Producing Thru<br>Tubing                                                                                                  |                             | Reservoir Temp. °F<br>8 |                             | Mean Annual Temp. °F                                      |                                                                                                                                                                                                                                                                            | Baro. Press. - P <sub>g</sub>                 |                         |
| L                                                                                                                         |                             | H                       |                             | G <sub>g</sub>                                            |                                                                                                                                                                                                                                                                            | Prover                                        |                         |
|                                                                                                                           |                             |                         |                             | .680                                                      |                                                                                                                                                                                                                                                                            |                                               |                         |
| FLOW DATA                                                                                                                 |                             |                         |                             | TUBING DATA                                               |                                                                                                                                                                                                                                                                            | CASING DATA                                   |                         |
| NO.                                                                                                                       | Prover<br>Line<br>Size      | X                       | Orifice<br>Size             | Press.<br>p.s.i.g.                                        | Diff.<br>h <sub>w</sub>                                                                                                                                                                                                                                                    | Temp.<br>°F                                   | Duration<br>of<br>Flow  |
| 1.                                                                                                                        | 2                           | x                       | .750                        | 294                                                       |                                                                                                                                                                                                                                                                            |                                               | 3 hour                  |
| 2.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| 3.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| 4.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| 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<br>F <sub>t</sub>                    | Gravity<br>Factor<br>F <sub>g</sub>                                                                                                                                                                                                                                        | Super<br>Compress.<br>Factor, F <sub>pv</sub> | Rate of Flow<br>Q, Mcfd |
| 1.                                                                                                                        | 11                          |                         | 306                         | 1.012                                                     | 1.213                                                                                                                                                                                                                                                                      | 1.039                                         | 4293                    |
| 2.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| 3.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| 4.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| 5.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| NO.                                                                                                                       | P <sub>t</sub>              | Temp. °R                | T <sub>r</sub>              | Z                                                         | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.<br>A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.<br>Specific Gravity Separator Gas _____<br>Specific Gravity Flowing Fluid _____<br>Critical Pressure _____ P.S.I.A. _____ P.S.I.A.<br>Critical Temperature _____ R _____ R |                                               |                         |
| 1.                                                                                                                        | 0.46                        | 508                     | 1.32                        | .927                                                      |                                                                                                                                                                                                                                                                            |                                               |                         |
| 2.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| 3.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| 4.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| 5.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| P <sub>c</sub> 645      P <sub>c</sub> <sup>2</sup> 416025                                                                |                             |                         |                             |                                                           | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.5614$ (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.5925$                                                                                                                                                                     |                                               |                         |
| 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.                                                                                                                        | 93636                       | 547                     | 299209                      | 116816                                                    |                                                                                                                                                                                                                                                                            |                                               |                         |
| 2.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| 3.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| 4.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| 5.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 11129$                                                            |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| Absolute Open Flow                                                                                                        |                             |                         |                             |                                                           | 11129                                                                                                                                                                                                                                                                      |                                               | Mcf @ 15.025            |
| Angle of Slope                                                                                                            |                             |                         |                             |                                                           | θ                                                                                                                                                                                                                                                                          |                                               | Slope, h .75            |
| Remarks:                                                                                                                  |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                                            |                                               |                         |
| Approved By Commission:                                                                                                   |                             | Conducted By:           |                             | Calculated By:                                            |                                                                                                                                                                                                                                                                            | Checked By:                                   |                         |