

**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>7/22/76                  |           |                              |  |
| Company<br>Tenneco Oil Company                                                                                            |              |                         |                   | Connection<br>Not connected          |                    |                                       |           |                              |  |
| Pool<br>Blanco Mesa Verde                                                                                                 |              |                         |                   | Formation<br>Mesa Verde              |                    |                                       |           | Unit<br>E                    |  |
| Completion Date<br>7/10/76                                                                                                |              | Total Depth<br>5630'    |                   | Plug Back TD<br>5554'                |                    | Elevation<br>6301' GL                 |           | Farm or Lease Name<br>Lawson |  |
| Cs. Size<br>4 1/2"                                                                                                        | Wt.<br>10.5# | d                       | Set At<br>5628'   | Perforations:<br>From 5544' To 5100' |                    | Well No.<br>1-A                       |           |                              |  |
| Thg. Size<br>2 3/8"                                                                                                       | Wt.<br>4.7#  | d                       | Set At<br>5350'   | Perforations:<br>From 5018' To 4809' |                    | Unit Sec. Twp. Rge.<br>E, 10, 30N, 8W |           |                              |  |
| Type Well - Single - Rodenthead - G.C. or C.O. Multiple<br>Single                                                         |              |                         |                   |                                      |                    | Packer Set At<br>None set             |           | County<br>San Juan           |  |
| Producing Thru<br>Tubing                                                                                                  |              | Reservoir Temp. °F<br>P |                   | Mean Annual Temp. °F                 |                    | Baro. Press. - P <sub>g</sub>         |           | State<br>New Mexico          |  |
| L                                                                                                                         | H            | G <sub>g</sub><br>.680  | % CO <sub>2</sub> | % N <sub>2</sub>                     | % H <sub>2</sub> S | Prover                                | Meter Run | Taps                         |  |

  

| FLOW DATA |                  |   |              |                 |                      |          | TUBING DATA     |          | CASING DATA     |          | Duration of Flow |
|-----------|------------------|---|--------------|-----------------|----------------------|----------|-----------------|----------|-----------------|----------|------------------|
| NO.       | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. h <sub>w</sub> | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F |                  |
| SI        |                  |   |              |                 |                      |          | 534             |          | 684             |          |                  |
| 1.        | 2.0              | x | .750         | 212             |                      | 67°      | 212             |          | 561             |          | 3 hours          |
| 2.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 3.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 4.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 5.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |

  

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                       |                               |                                         |                      |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------------------|-----------------------------------------|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor Ft. | Gravity Factor F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | 11                    |                  | 224                     | 1.0                   | 1.213                         | 1.024                                   | 3060                 |
| 2                         |                       |                  |                         |                       |                               |                                         |                      |
| 3                         |                       |                  |                         |                       |                               |                                         |                      |
| 4                         |                       |                  |                         |                       |                               |                                         |                      |
| 5                         |                       |                  |                         |                       |                               |                                         |                      |

  

|     |                |          |                |      |                                       |           |
|-----|----------------|----------|----------------|------|---------------------------------------|-----------|
| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z    | Gas Liquid Hydrocarbon Ratio          | Mcf/bbl.  |
| 1.  | .335           | 527      | 1.369          | .954 | A.P.I. Gravity of Liquid Hydrocarbons | Deg.      |
| 2.  |                |          |                |      | Specific Gravity Separator Gas        |           |
| 3.  |                |          |                |      | Specific Gravity Flowing Fluid        | X X X X X |
| 4.  |                |          |                |      | Critical Pressure                     | P.S.I.A.  |
| 5.  |                |          |                |      | Critical Temperature                  | R         |

  

|                              |                             |                |                             |                                                           |                                           |  |                                                            |  |
|------------------------------|-----------------------------|----------------|-----------------------------|-----------------------------------------------------------|-------------------------------------------|--|------------------------------------------------------------|--|
| $P_c = 696$ $P_c^2 = 484416$ |                             |                |                             |                                                           | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.103$ |  | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.338$ |  |
| NO.                          | P <sub>r</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                            | 50176                       | 573            | 328329                      | 156087                                                    |                                           |  |                                                            |  |
| 2                            |                             |                |                             |                                                           |                                           |  |                                                            |  |
| 3                            |                             |                |                             |                                                           |                                           |  |                                                            |  |
| 4                            |                             |                |                             |                                                           |                                           |  |                                                            |  |
| 5                            |                             |                |                             |                                                           |                                           |  |                                                            |  |

  

|                                                               |  |  |  |  |
|---------------------------------------------------------------|--|--|--|--|
| AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7154$ |  |  |  |  |
|---------------------------------------------------------------|--|--|--|--|

  

|                                        |  |                        |  |                |  |
|----------------------------------------|--|------------------------|--|----------------|--|
| Absolute Open Flow _____ Mcfd @ 15.025 |  | Angle of Slope θ _____ |  | Slope, n _____ |  |
|----------------------------------------|--|------------------------|--|----------------|--|

  

|          |  |  |  |
|----------|--|--|--|
| Remarks: |  |  |  |
|----------|--|--|--|

  

|                         |               |                                     |             |
|-------------------------|---------------|-------------------------------------|-------------|
| Approved By Commission: | Conducted By: | Calculated By:<br><i>W.T. Jones</i> | Checked By: |
|-------------------------|---------------|-------------------------------------|-------------|