

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

Revised 12-1-55

|                                   |                   |                            |                                |                                                                       |                   |
|-----------------------------------|-------------------|----------------------------|--------------------------------|-----------------------------------------------------------------------|-------------------|
| Pool<br><b>Basin Dakota</b>       |                   | Formation<br><b>Dakota</b> |                                | County<br><b>San Juan</b>                                             |                   |
| Initial<br><b>X</b>               | Annual            | Special                    | Date of Test<br><b>11-5-65</b> |                                                                       |                   |
| Company<br><b>Tenneco Oil Co.</b> |                   | Lease<br><b>Newberry</b>   |                                | Well No.<br><b>A-1</b>                                                |                   |
| Unit<br><b>A</b>                  | Sec.<br><b>7</b>  | Twp.<br><b>31</b>          | Range<br><b>12</b>             | Purchaser                                                             |                   |
| Casing<br><b>4.5</b>              | Wt.<br><b>9.5</b> | I.D.                       | Set at<br><b>7203</b>          | Perf.<br><b>6956</b>                                                  | To<br><b>7138</b> |
| Tubing<br><b>2 3/8</b>            | Wt.<br><b>4.7</b> | I.D.                       | Set at<br><b>7132</b>          | Perf.                                                                 | To                |
| Gas Pay:                          | From              | To                         | L<br><b>.65</b>                | G<br><b>12.0</b>                                                      | GL<br>Bar. Press. |
| Producing Through:                |                   | Casing                     | Tubing<br><b>X</b>             | Type Well - Single - Braden head - G.G. or G.O. Dual<br><b>Single</b> |                   |
| Date of Completion                |                   | Packer                     |                                | Reservoir Temp.                                                       |                   |

OBSERVED DATA

|                 |  |                                 |                                           |                                |              |  |
|-----------------|--|---------------------------------|-------------------------------------------|--------------------------------|--------------|--|
| Tested Through: |  | Prover <input type="checkbox"/> | Choke <input checked="" type="checkbox"/> | Meter <input type="checkbox"/> | Type of Taps |  |
|-----------------|--|---------------------------------|-------------------------------------------|--------------------------------|--------------|--|

| FLOW DATA |                      |                        |              |                      | TUBING DATA |              | CASING DATA |              | DURATION OF FLOW HR. |
|-----------|----------------------|------------------------|--------------|----------------------|-------------|--------------|-------------|--------------|----------------------|
| No.       | (Prover) (Line) Size | (Choke) (Orifice) Size | Press. psig. | Diff. h <sub>w</sub> | Temp. °F.   | Press. psig. | Temp. °F.   | Press. psig. |                      |
| 1.        |                      |                        |              |                      |             | <b>1724</b>  |             | <b>1700</b>  |                      |
| 2.        |                      |                        |              |                      |             | <b>312</b>   | <b>91</b>   | <b>1063</b>  |                      |
| 3.        |                      |                        |              |                      |             |              |             |              |                      |
| 4.        |                      |                        |              |                      |             |              |             |              |                      |
| 5.        |                      |                        |              |                      |             |              |             |              |                      |

FLOW CALCULATIONS

| No. | Coefficient (24 Hour) | $\sqrt{h_w P_t}$ | Pressure psia | Flow Temp. Factor F <sub>t</sub> | Gravity Factor F <sub>g</sub> | Compress. Factor F <sub>pv</sub> | Rate of Flow Q-MCF P.D. |
|-----|-----------------------|------------------|---------------|----------------------------------|-------------------------------|----------------------------------|-------------------------|
| 1.  | <b>12.3650</b>        |                  | <b>324</b>    | <b>.9715</b>                     | <b>.9608</b>                  | <b>1.026</b>                     | <b>3883</b>             |
| 2.  |                       |                  |               |                                  |                               |                                  |                         |
| 3.  |                       |                  |               |                                  |                               |                                  |                         |
| 4.  |                       |                  |               |                                  |                               |                                  |                         |
| 5.  |                       |                  |               |                                  |                               |                                  |                         |

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.      Specific Gravity Separator Gas \_\_\_\_\_

Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.      Specific Gravity Flowing Fluid \_\_\_\_\_

F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-S</sup>)      P<sub>c</sub> **1736**      P<sub>c</sub><sup>2</sup> **3013696**

| No. | $\frac{P_w}{P_t}$ psia | P <sub>t</sub> <sup>2</sup> | F <sub>c</sub> Q | (F <sub>c</sub> Q) <sup>2</sup> | (F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-S</sup> ) | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | Cal P <sub>w</sub> | $\frac{P_w}{P_c}$ |
|-----|------------------------|-----------------------------|------------------|---------------------------------|------------------------------------------------------|-----------------------------|-----------------------------------------------------------|--------------------|-------------------|
| 1.  | <b>1075</b>            |                             |                  |                                 |                                                      | <b>1155625</b>              | <b>1858071</b>                                            |                    |                   |
| 2.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |
| 3.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |
| 4.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |
| 5.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |

ABSOLUTE POTENTIAL: **5509** MCFPD; n **.75 (1.4372)**

COMPANY **Tenneco Oil Company** WITNESSED \_\_\_\_\_

ADDRESS **P. O. Box 1714 - Durango, Colorado** COMPANY \_\_\_\_\_

AGENT AND TITLE **J. E. Massey** **J. E. Massey**  
**District Production Engineer**