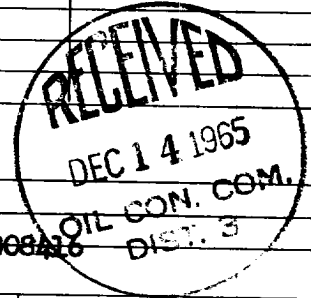


**NEW MEXICO OIL CONSERVATION COMMISSION  
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122  
Revised 12-1-55

|                                                 |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
|-------------------------------------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------|-------------------|-------------------------------------|--|
| Pool<br><b>Basin Dakota</b>                     |                                   |                                 |                       | Formation<br><b>Dakota</b>                                            |                                                      |                                                                             |                                                           | County<br><b>Rio Arriba</b> |                   |                                     |  |
| Initial<br><b>X</b>                             |                                   | Annual                          |                       | Special                                                               |                                                      | Date of Test<br><b>12-5-65</b>                                              |                                                           |                             |                   |                                     |  |
| Company<br><b>Tenneco Oil Co.</b>               |                                   |                                 |                       | Lease<br><b>Jicarilla A</b>                                           |                                                      |                                                                             |                                                           | Well No.<br><b>4-4</b>      |                   |                                     |  |
| Unit<br><b>K</b>                                | Sec.<br><b>19</b>                 | Twp.<br><b>26N</b>              | Range<br><b>5W</b>    | Purchaser                                                             |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| Casing<br><b>4.5</b>                            | Wt.<br><b>10.5</b><br><b>11.6</b> | I.D.                            | Set at<br><b>7584</b> | Perf.<br><b>7255</b>                                                  | To<br><b>7491</b>                                    |                                                                             |                                                           |                             |                   |                                     |  |
| Tubing<br><b>2.375</b>                          | Wt.<br><b>4.7</b>                 | I.D.                            | Set at<br><b>7490</b> | Perf.                                                                 | To                                                   |                                                                             |                                                           |                             |                   |                                     |  |
| Gas Pay: From                                   |                                   | To                              |                       | L                                                                     | G                                                    | GL                                                                          | Bar. Press.                                               |                             |                   |                                     |  |
|                                                 |                                   |                                 |                       |                                                                       | <b>.650</b>                                          |                                                                             | <b>12.0</b>                                               |                             |                   |                                     |  |
| Producing Through:                              |                                   | Casing                          |                       | Tubing<br><b>X</b>                                                    |                                                      | Type Well - Single - Braden head - G.G. or G.O. Dual<br><b>Single - Gas</b> |                                                           |                             |                   |                                     |  |
| Date of Completion                              |                                   | Packer                          |                       | Reservoir Temp.<br><b>180</b>                                         |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| <b>OBSERVED DATA</b>                            |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| Tested Through:                                 |                                   | Prover <input type="checkbox"/> |                       | Choke <input checked="" type="checkbox"/>                             |                                                      | Meter <input type="checkbox"/>                                              |                                                           | Type of Taps                |                   |                                     |  |
| <b>FLOW DATA</b>                                |                                   |                                 |                       |                                                                       |                                                      | <b>TUBING DATA</b>                                                          |                                                           | <b>CASING DATA</b>          |                   | <b>DURATION<br/>OF FLOW<br/>HR.</b> |  |
| No.                                             | (Prover)<br>(Line)<br>Size        | (Choke)<br>(Orifice)<br>Size    | Press.<br>psig.       | Diff.<br>h <sub>w</sub>                                               | Temp.<br>°F.                                         | Press.<br>psig.                                                             | Temp.<br>°F.                                              | Press.<br>psig.             | Temp.<br>°F.      |                                     |  |
| SI                                              |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| 1.                                              |                                   | <b>3/4</b>                      |                       |                                                                       |                                                      | <b>2290</b>                                                                 |                                                           | <b>2292</b>                 |                   | <b>3 Hr.</b>                        |  |
| 2.                                              |                                   |                                 |                       |                                                                       |                                                      | <b>611</b>                                                                  | <b>88</b>                                                 | <b>1243</b>                 |                   |                                     |  |
| 3.                                              |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| 4.                                              |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| 5.                                              |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| <b>FLOW CALCULATIONS</b>                        |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| No.                                             | Coefficient<br>(24 Hour)          | $\sqrt{h_w p_f}$                | Pressure<br>psia      | Flow Temp.<br>Factor<br>F <sub>t</sub>                                | Gravity<br>Factor<br>F <sub>g</sub>                  | Compress.<br>Factor<br>F <sub>pv</sub>                                      | Rate of Flow Q-MCF P D<br>@ 15,025 psia                   |                             |                   |                                     |  |
| 1.                                              | <b>12.3650</b>                    |                                 | <b>623</b>            | <b>.9741</b>                                                          | <b>.9608</b>                                         | <b>1.059</b>                                                                | <b>7629</b>                                               |                             |                   |                                     |  |
| 2.                                              |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| 3.                                              |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| 4.                                              |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| 5.                                              |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| <b>PRESSURE CALCULATIONS</b>                    |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| 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> <b>2304</b> P <sub>c</sub> <sup>2</sup> <b>5308416</b> |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| 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<br>P <sub>w</sub>       | $\frac{P_w}{P_c}$ |                                     |  |
| 1.                                              | <b>1255</b>                       |                                 |                       |                                                                       |                                                      | <b>1575025</b>                                                              | <b>3733391</b>                                            |                             |                   |                                     |  |
| 2.                                              |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| 3.                                              |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| 4.                                              |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |
| 5.                                              |                                   |                                 |                       |                                                                       |                                                      |                                                                             |                                                           |                             |                   |                                     |  |



ABSOLUTE POTENTIAL: 9934 MCFPD; n .75 (1.3021)

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**

Company TENNECO OIL COMPANY Lease JICARILLA Well No. A-4  
 Field BASIN DAKOTA County RIO ARriba State NEW MEXICO  
 Formation DAKOTA Test Date DECEMBER 5, 1965

| Status of Well <u>Shut in well</u> |                  |                     |
|------------------------------------|------------------|---------------------|
| DEPTH<br>Feet                      | PRESSURE<br>Psig | GRADIENT<br>Psi/Ft. |
| 0                                  | 2287             |                     |
| 2000                               | 2486             | 0.100               |
| 4000                               | 2684             | 0.099               |
| 6800                               | 2964             | 0.100               |
| 7100                               | 2996             | 0.107               |
| 7400                               | 3028             | 0.107               |
| 7444 Mid-Perf                      | 3033             | 0.107               |

Datum Pressure \_\_\_\_\_ Psig



\* 7255-54 7396-71.91

|                         |              |          |
|-------------------------|--------------|----------|
| Elev.                   | Datum        | Ft.      |
| Total Depth             | Perf.        | Ft.      |
| Tubing 2 3/8            | in. to 7490  | Ft.      |
| Casing 4 1/2            | in. to 7584  | Ft.      |
| Casing Press. 2292      | Tubing Press | 2290 DWT |
| Oil Level               | Water Level  |          |
| Temperature 180         | °F to 7400   | Ft.      |
| Element No. 10190       | Range 0-4750 |          |
| Last Test Date          |              |          |
| Pressure Last Test Date |              | Psig     |
| B.H.P. Change           | Psi          |          |

PRESSURE POUNDS PER SQUARE INCH GAUGE

