

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

Form C-122  
Revised 12-1-55

|                                                                                                                          |                       |                             |                       |                                     |                                                                       |                                                                       |                                                           |                           |                                |                             |  |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------|-----------------------|-------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------|---------------------------|--------------------------------|-----------------------------|--|
| Pool<br><b>Blanco Pictured Cliffs</b>                                                                                    |                       |                             |                       | Formation<br><b>Pictured Cliffs</b> |                                                                       |                                                                       |                                                           | County<br><b>San Juan</b> |                                |                             |  |
| Initial<br><b>I</b>                                                                                                      |                       | Annual                      |                       | Special                             |                                                                       | Date of Test<br><b>8-12-1966</b>                                      |                                                           |                           |                                |                             |  |
| Company<br><b>Tenneco Oil Co.</b>                                                                                        |                       |                             |                       | Lease<br><b>State Com.</b>          |                                                                       |                                                                       |                                                           | Well No.<br><b>MM 13</b>  |                                |                             |  |
| Unit<br><b>L</b>                                                                                                         | Sec.<br><b>32</b>     | Twp.<br><b>30</b>           | Range<br><b>9</b>     |                                     | Purchaser                                                             |                                                                       |                                                           |                           |                                |                             |  |
| Casing<br><b>3.5</b>                                                                                                     | Wt.                   | I.D.                        | Set at<br><b>2476</b> |                                     | Perf.<br><b>2344</b>                                                  |                                                                       | To<br><b>2387</b>                                         |                           |                                |                             |  |
| Tubing                                                                                                                   | Wt.                   | I.D.                        | Set at                |                                     | Perf.                                                                 |                                                                       | To                                                        |                           |                                |                             |  |
| Gas Pay:                                                                                                                 | From                  | To                          | L                     | G                                   | GL                                                                    | Bar. Press.                                                           |                                                           |                           |                                |                             |  |
|                                                                                                                          |                       |                             |                       | <b>.650</b>                         | <b>1524</b>                                                           | <b>12.0</b>                                                           |                                                           |                           |                                |                             |  |
| Producing Through:                                                                                                       |                       | Casing<br><b>I</b>          | Tubing                |                                     |                                                                       | Type Well - Single - Braden head - G.G. or G.O. Dual<br><b>Single</b> |                                                           |                           |                                |                             |  |
| Date of Completion                                                                                                       |                       | Packer                      |                       |                                     | Reservoir Temp.<br><b>106</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 OF FLOW HR.</b> |  |
| No.                                                                                                                      | (Prover) (Line) Size  | (Choke) (Orifice) Size      | Press. psig.          | Diff. h <sub>w</sub>                | Temp. °F.                                                             | Press. psig.                                                          | Temp. °F.                                                 | Press. psig.              | Temp. °F.                      |                             |  |
| 1.                                                                                                                       |                       | <b>3/4</b>                  |                       |                                     |                                                                       |                                                                       |                                                           | <b>1023</b>               |                                |                             |  |
| 2.                                                                                                                       |                       |                             |                       |                                     |                                                                       |                                                                       |                                                           | <b>222</b>                | <b>60</b>                      | <b>3 hr.</b>                |  |
| 3.                                                                                                                       |                       |                             |                       |                                     |                                                                       |                                                                       |                                                           |                           |                                |                             |  |
| 4.                                                                                                                       |                       |                             |                       |                                     |                                                                       |                                                                       |                                                           |                           |                                |                             |  |
| 5.                                                                                                                       |                       |                             |                       |                                     |                                                                       |                                                                       |                                                           |                           |                                |                             |  |
| <b>FLOW CALCULATIONS</b>                                                                                                 |                       |                             |                       |                                     |                                                                       |                                                                       |                                                           |                           |                                |                             |  |
| No.                                                                                                                      | Coefficient (24 Hour) | $\sqrt{h_w P_f}$            | 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 PD @ 15,025 psia                       |                           |                                |                             |  |
| 1.                                                                                                                       | <b>12.3650</b>        |                             | <b>234</b>            | <b>1.000</b>                        | <b>.9608</b>                                                          | <b>1.023</b>                                                          | <b>2844</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> <b>3.055</b> (1-e <sup>-S</sup> ) <b>0.105</b>                                                            |                       |                             |                       |                                     | P <sub>c</sub> <b>1035</b> P <sub>c</sub> <sup>2</sup> <b>1071225</b> |                                                                       |                                                           |                           |                                |                             |  |
| No.                                                                                                                      | P <sub>w</sub> 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>        | P <sub>w</sub> /P <sub>c</sub> |                             |  |
| 1.                                                                                                                       | <b>234</b>            | <b>54756</b>                | <b>8688</b>           | <b>75481</b>                        | <b>7926</b>                                                           | <b>62682</b>                                                          | <b>1008543</b>                                            |                           |                                |                             |  |
| 2.                                                                                                                       |                       |                             |                       |                                     |                                                                       |                                                                       |                                                           |                           |                                |                             |  |
| 3.                                                                                                                       |                       |                             |                       |                                     |                                                                       |                                                                       |                                                           |                           |                                |                             |  |
| 4.                                                                                                                       |                       |                             |                       |                                     |                                                                       |                                                                       |                                                           |                           |                                |                             |  |
| 5.                                                                                                                       |                       |                             |                       |                                     |                                                                       |                                                                       |                                                           |                           |                                |                             |  |

ABSOLUTE POTENTIAL: **2973** MCFPD; n **.85** **1.0525**

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**

