

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

|                                                                                                                           |              |                         |                   |                                    |                    |                                     |                |
|---------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------|-------------------|------------------------------------|--------------------|-------------------------------------|----------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |              |                         |                   | Test Date<br>12-22-87              |                    |                                     |                |
| Company<br>TENNECO OIL CO.                                                                                                |              |                         |                   | Connection                         |                    |                                     |                |
| Pool<br>BLANCO                                                                                                            |              |                         |                   | Formation<br>PICTURED CLIFFS       |                    | Unit                                |                |
| Completion Date                                                                                                           |              | Total Depth<br>3304     |                   | Plug Back TD<br>3260               |                    | Elevation                           |                |
| Form or Lease Name<br>RIDDLE C                                                                                            |              |                         |                   |                                    |                    |                                     |                |
| Csq. Size<br>4 1/2"                                                                                                       | Wt.<br>10.5# | d<br>K-55               | Set At<br>3304    | Perforations:<br>From 3146 To 3196 |                    | Well No.<br>7                       |                |
| Thq. Size<br>2 3/8"                                                                                                       | Wt.<br>4.7#  | d<br>J-55               | Set At<br>3150    | Perforations:<br>From To           |                    | Unit Sec. Twp. Rge.<br>A 30 31N 09W |                |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple                                                                   |              |                         |                   | Packer Set At                      |                    | County<br>SAN JUAN                  |                |
| Producing Thru                                                                                                            |              | 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>665   | % 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 |                  |
| 1.        | 2x6x.750         |   |              |                 |                      |          | 663             |          | 681             |          | 3 hours          |
| 2.        |                  |   |              |                 |                      |          | 187             |          | 375             | 55       |                  |
| 3.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 4.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 5.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                                  |                               |                                         |                     |
|---------------------------|-----------------------|------------------|-------------------------|----------------------------------|-------------------------------|-----------------------------------------|---------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor F <sub>t</sub> | Gravity Factor F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcd |
| 1.                        | 11.0                  |                  | 199                     | 1.005                            | 1.226                         | 1.023                                   | 2759                |
| 2.                        |                       |                  |                         |                                  |                               |                                         |                     |
| 3.                        |                       |                  |                         |                                  |                               |                                         |                     |
| 4.                        |                       |                  |                         |                                  |                               |                                         |                     |
| 5.                        |                       |                  |                         |                                  |                               |                                         |                     |

RECEIVED

|     |      |          |                |      |                                       |                            |
|-----|------|----------|----------------|------|---------------------------------------|----------------------------|
| NO. | R    | Temp. °R | T <sub>g</sub> | Z    | Gas Liquid Hydrocarbon Ratio          | Mcf/bbl.                   |
| 1.  | .298 | 515      | 1.35           | .956 | A.P.I. Gravity of Liquid Hydrocarbons | Deq.                       |
| 2.  |      |          |                |      | Specific Gravity Separator Gas        | OIL CON. DATA XXXXXXXXXXXX |
| 3.  |      |          |                |      | Specific Gravity Flowing Fluid        | XXXXXXXXXXXX               |
| 4.  |      |          |                |      | Critical Pressure                     | P.S.I.A. DIST. 3           |
| 5.  |      |          |                |      | Critical Temperature                  | R P.S.I.A. R               |

P<sub>c</sub> 693    P<sub>c</sub><sup>2</sup> 480249

| NO. | P <sub>1</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   |                             |                |                             |                                                           |
| 2   |                             |                |                             |                                                           |
| 3   |                             |                |                             |                                                           |
| 4   |                             |                |                             |                                                           |
| 5   |                             |                |                             |                                                           |

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = 1.453$     (2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.374$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3790$

|                    |      |              |                |              |
|--------------------|------|--------------|----------------|--------------|
| Absolute Open Flow | 3790 | Mcd @ 15.025 | Angle of Slope | Slope, n .85 |
| Remarks:           |      |              |                |              |
|                    |      |              |                |              |

|                      |                               |                                |             |
|----------------------|-------------------------------|--------------------------------|-------------|
| Approved By Division | Conducted By:<br>DANNY BUTTON | Calculated By:<br>MARK MC COOL | Checked By: |
|----------------------|-------------------------------|--------------------------------|-------------|