

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><b>10-26-66</b> |                                              |                                                            |                            |                                          |      |  |
| Company<br><b>Tenneco Oil Co.</b>                                                                                         |     |                         |                       |                                                  | Connection                   |                                              |                                                            |                            |                                          |      |  |
| Pool<br><b>Basin Dakota</b>                                                                                               |     |                         |                       |                                                  | Formation<br><b>Dakota</b>   |                                              |                                                            |                            |                                          |      |  |
| Completion Date                                                                                                           |     |                         | Total Depth           |                                                  | Plug Back TD<br><b>7608</b>  |                                              | Elevation<br><b>6381</b>                                   |                            | Farm or Lease Name<br><b>Hubbard Com</b> |      |  |
| Csg. Size<br><b>4.5</b>                                                                                                   | Wt. | d                       | Set At<br><b>7643</b> | Perforations:<br>From <b>7512</b> To <b>7624</b> |                              |                                              | Well No.<br><b>1</b>                                       |                            |                                          |      |  |
| Tbg. Size<br><b>2.375</b>                                                                                                 | Wt. | d                       | Set At<br><b>7620</b> | Perforations:<br>From                      To    |                              |                                              | Unit    Sec.    Twp.    Rge.<br><b>I    25    32    12</b> |                            |                                          |      |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br><b>Single</b>                                                  |     |                         |                       |                                                  | Packer Set At                |                                              |                                                            | County<br><b>San Juan</b>  |                                          |      |  |
| Producing Thru<br><b>TBG</b>                                                                                              |     | Reservoir Temp. °F<br>@ |                       | Mean Annual Temp. °F                             |                              | Baro. Press. - P <sub>a</sub><br><b>12.0</b> |                                                            | State<br><b>New Mexico</b> |                                          |      |  |
| L                                                                                                                         | H   | Gg                      | % 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.        | <b>2</b>         | <b>x</b> | <b>3/4</b>   |                 |                      |          | <b>2235</b>     |           | <b>2234</b>     |          | <b>3 hr.</b>     |
| 2.        |                  |          |              |                 |                      |          | <b>433</b>      | <b>60</b> | <b>1256</b>     |          |                  |
| 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 Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1.                        | <b>12.3650</b>        |                  | <b>445</b>              | <b>1.000</b>          | <b>.9608</b>      | <b>1.048</b>                | <b>5540</b>          |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

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

|                            |                                            |                |                             |
|----------------------------|--------------------------------------------|----------------|-----------------------------|
| P <sub>c</sub> <b>2247</b> | P <sub>c</sub> <sup>2</sup> <b>5049009</b> |                |                             |
| NO.                        | P <sub>t</sub> <sup>2</sup>                | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> |
| 1.                         |                                            | <b>1268</b>    | <b>1607824</b>              |
| 2.                         |                                            |                |                             |
| 3.                         |                                            |                |                             |
| 4.                         |                                            |                |                             |
| 5.                         |                                            |                |                             |

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.4672} \qquad (2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.3231}$$

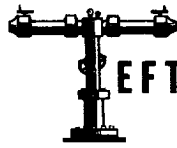
$$AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{7330}$$

|                                              |                               |                     |
|----------------------------------------------|-------------------------------|---------------------|
| Absolute Open Flow <b>7330</b> Mcfd @ 15.025 | Angle of Slope $\theta$ _____ | Slope, n <b>.75</b> |
| Remarks: _____                               |                               |                     |

|                         |               |                                         |                                                           |
|-------------------------|---------------|-----------------------------------------|-----------------------------------------------------------|
| Approved By Commission: | Conducted By: | Calculated By:<br><b>Neil Tefteller</b> | Checked By:<br><i>J. E. Massey</i><br><b>J. E. Massey</b> |
|-------------------------|---------------|-----------------------------------------|-----------------------------------------------------------|



EFTELLER, INC.

reservoir engineering data  
MIDLAND, TEXAS

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File 2-2224-AOF

Company TENNECO OIL COMPANY Lease HUBBARD COM. Well No. 1  
Field BASIN DAKOTA County SAN JUAN State NEW MEXICO  
Formation DAKOTA Test Date OCTOBER 26, 1966

