

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

5-12.  
d 9-

|                                                                                                                         |          |                    |                                    |                       |                                  |                                       |           |
|-------------------------------------------------------------------------------------------------------------------------|----------|--------------------|------------------------------------|-----------------------|----------------------------------|---------------------------------------|-----------|
| Type Test: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |          |                    |                                    |                       |                                  | Test Date                             |           |
| Company<br>Dennaco Oil Company                                                                                          |          |                    |                                    | Connection            |                                  |                                       |           |
| Pool<br>Basin Dakota                                                                                                    |          |                    |                                    | Formation<br>Dakota   |                                  | Unit                                  |           |
| Completion Date                                                                                                         |          | Total Depth        |                                    | Plug Back TD<br>7740  |                                  | Elevation                             |           |
| Farm or Lease Name<br>Jicarilla "C"                                                                                     |          |                    |                                    | Well No.<br>7         |                                  |                                       |           |
| Cor. Size<br>4.5                                                                                                        | Wt.<br>d | Set At<br>7774     | Perforations:<br>From 7486 To 7687 |                       | Unit Sec. Twp. Rge.<br>M 13 26 5 |                                       |           |
| Perf. Size<br>2.75                                                                                                      | Wt.<br>d | Set At<br>7430     | Perforations:<br>From To           |                       | Unit Sec. Twp. Rge.              |                                       |           |
| Type Well - Single - Bradenhead - G.O. or G.O. Multiple<br>Dual Gas                                                     |          |                    |                                    | Packer Set At<br>7430 |                                  | County<br>Rio Arriba                  |           |
| Producing Thru                                                                                                          |          | Reservoir Temp. °F |                                    | Mean Annual Temp. °F  |                                  | Baro. Press. - P <sub>a</sub><br>12.0 |           |
|                                                                                                                         |          | a                  |                                    |                       |                                  | State<br>New Mexico                   |           |
| 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. | DIN. h <sub>w</sub> | Temp. °F    | Press. p.s.i.g. | Temp. °F    | Press. p.s.i.g. |                  | Temp. °F |
| 1.        | 2" X 3/4"        |   |              |                 |                     |             | 2113            | 60          | Flr.            |                  | 3 hrs    |
| 2.        |                  |   |              |                 |                     |             |                 |             |                 |                  |          |
| 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.                        | 2.025                 |                  | 374                     | 1.000                 | .9608             | 1.032                       | 3590                 |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

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

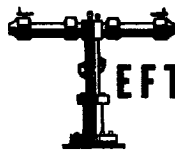
|                                                               |                                                             |
|---------------------------------------------------------------|-------------------------------------------------------------|
| $(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0913$                    | $(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0677$ |
| $AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4132$ |                                                             |

|                    |      |               |                       |               |
|--------------------|------|---------------|-----------------------|---------------|
| Absolute Open Flow | 4132 | Mcfd @ 15.025 | Angle of Slope $\phi$ | Slope, n = 75 |
| Remarks:           |      |               |                       |               |

|                         |               |                                  |             |
|-------------------------|---------------|----------------------------------|-------------|
| Approved By Commission: | Conducted By: | Calculated By:<br>Neil Tefteller | Checked By: |
|-------------------------|---------------|----------------------------------|-------------|



EFTELLER, INC.

reservoir engineering data  
MIDLAND, TEXAS

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File 4-2404-AOF

Company TENNECO OIL COMPANY Lease JICARILLA "C" Well No. 7  
Field BASIN DAKOTA County RIO ARriba State NEW MEXICO  
Formation DAKOTA Test Date JUNE 2, 1967

