

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>8/15/75                  |           |                                |  |
| Company<br>Tenneco Oil Company                                                                                            |             |                         |                   | Connection                         |                    |                                       |           |                                |  |
| Pool<br>Mesa Verde                                                                                                        |             |                         |                   | Formation<br>Mesa Verde            |                    |                                       |           | Unit<br>P                      |  |
| Completion Date<br>8/13/75                                                                                                |             | Total Depth<br>5670'    |                   | Plug Back TD<br>5632'              |                    | Elevation<br>6189' GL                 |           | Farm or Lease Name<br>Florance |  |
| Case Size<br>4 1/2"                                                                                                       | Wt.<br>10.5 | d<br>liner              | Set At<br>5670    | Perforations:<br>From 4866 To 5398 |                    | Well No.<br>36A                       |           |                                |  |
| Thg. Size<br>2 3/8"                                                                                                       | Wt.<br>4.7  | d                       | Set At<br>4812    | Perforations:<br>From To           |                    | Unit Sec. Twp. Rge.<br>P 3, T30N, R8W |           |                                |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Dual but Fruitland non-commercial                              |             |                         |                   |                                    |                    | Packer Set At<br>4812                 |           | County<br>San Juan             |  |
| Producing Thru<br>tubing                                                                                                  |             | Reservoir Temp. °F<br>8 |                   | Mean Annual Temp. °F               |                    | Baro. Press. - P <sub>a</sub>         |           | State<br>New Mexico            |  |
| L                                                                                                                         | H           | G <sub>g</sub><br>.680  | % 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 |
| SI        | 2 x              | .750 |              | 192             |                      | 44          | 744             | -           | -               | -                | 3 hrs.   |
| 1.        |                  |      |              |                 |                      |             |                 |             |                 |                  |          |
| 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 F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | 11                    |                  | 204                     | 1.016                 | 1.213                         | 1.025                                   | 2835                 |
| 2                         |                       |                  |                         |                       |                               |                                         |                      |
| 3                         |                       |                  |                         |                       |                               |                                         |                      |
| 4                         |                       |                  |                         |                       |                               |                                         |                      |
| 5                         |                       |                  |                         |                       |                               |                                         |                      |

|     |                |          |                |      |                                                  |
|-----|----------------|----------|----------------|------|--------------------------------------------------|
| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z    | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.      |
| 1   | 0.3            | 504      | 1.309          | .952 | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. |
| 2   |                |          |                |      | Specific Gravity Separator Gas _____             |
| 3   |                |          |                |      | Specific Gravity Flowing Fluid _____             |
| 4   |                |          |                |      | Critical Pressure _____ P.S.I.A.                 |
| 5   |                |          |                |      | Critical Temperature _____ R                     |

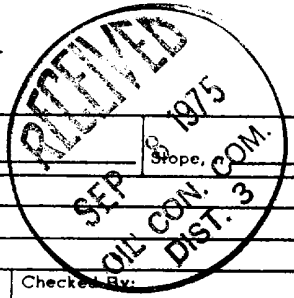
|     |                |                |                             |                             |                                                           |                                            |                                                             |
|-----|----------------|----------------|-----------------------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------|
| NO. | P <sub>r</sub> | P <sub>w</sub> | P <sub>r</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.5068$ | (2) $\left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.3600$ |
| 1   | 41616          | *438           | 192236                      | 379300                      |                                                           |                                            |                                                             |
| 2   |                |                |                             |                             |                                                           |                                            |                                                             |
| 3   |                |                |                             |                             |                                                           |                                            |                                                             |
| 4   |                |                |                             |                             |                                                           |                                            |                                                             |
| 5   |                |                |                             |                             |                                                           |                                            |                                                             |

|                                                                 |  |  |  |
|-----------------------------------------------------------------|--|--|--|
| $AOF = Q \left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3856$   |  |  |  |
| Absolute Pressure _____ Mcfd @ 15.025    Angle of Slope @ _____ |  |  |  |
| Remarks: * PW Calculated                                        |  |  |  |

|                         |               |                |             |
|-------------------------|---------------|----------------|-------------|
| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|-------------------------|---------------|----------------|-------------|



TABULATION OF DEVIATION TESTS

TENNECO OIL COMPANY

DEPTH

INCLINATION

|       |        |
|-------|--------|
| 1650' | 2°     |
| 2248' | 2 1/4° |
| 3910' | 2 1/4° |
| 4434' | 1°     |
| 5450' | 1°     |

A F F I D A V I T

THIS IS TO CERTIFY that to the best of my knowledge, the above tabulation details the deviation test taken on TENNECO OIL COMPANY's Florance 36A, Unit P, Sec. 3, T30N, R8W, 815 FSL and 1100' FEL, San Juan County, New Mexico

Signed

*T. F. R. Drake*

Agent

THE STATE OF COLORADO )

CITY AND COUNTY OF DENVER )

BEFORE ME, the undersigned authority, on this day, personally appeared, known to me to be an Agent for Tenneco Oil Company, and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, states that has knowledge of the facts stated herein and, that said statement is true and correct.

SUBSCRIBED AND SWORN TO before me, a Notary Public in and for said County and State this *3rd Day of September, 1975*

*D. P. Crawford*

My commission expires

My Commission Expires Feb. 11, 1976

