

## MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form 57144  
Revised 9-1-65

|                                                                                                                           |              |                         |                   |                                      |                     |                               |                                                           |                                |
|---------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------|-------------------|--------------------------------------|---------------------|-------------------------------|-----------------------------------------------------------|--------------------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |              |                         |                   |                                      | Test Date<br>1-4-77 |                               |                                                           |                                |
| Company<br>Tenneco Oil Company                                                                                            |              |                         |                   | Connection                           |                     |                               |                                                           |                                |
| Pool<br>Blanco                                                                                                            |              |                         |                   | Formation<br>Mesa Verde              |                     |                               |                                                           | Unit                           |
| Completion Date<br>12-24-76                                                                                               |              | Total Depth<br>5550'    |                   | Plug Back TD<br>5505'                |                     | Elevation<br>6293'            |                                                           | Farm or Lease Name<br>Florance |
| Csg. Size<br>4-1/2"                                                                                                       | Wt.<br>10.5# | d                       | Set At<br>5531    | Perforations:<br>From 5368' To 5190' |                     |                               | Well No.<br>28-A                                          |                                |
| Tbg. Size<br>2-3/8"                                                                                                       | Wt.<br>4.7#  | d                       | Set At<br>5338    | Perforations:<br>From 4646' To 5113' |                     |                               | Unit    Sec.    Twp.    Rge.<br>E       3       29N    8W |                                |
| Type Well - Single - Brdenhead - G.G. or G.O. Multiple<br>Single                                                          |              |                         |                   | Packer Set At<br>None Set            |                     |                               | County<br>San Juan                                        |                                |
| Producing Thru<br>Tubing                                                                                                  |              | Reservoir Temp. °F<br>@ |                   | 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        |                  |   |              |                 |                      |             | 637             |             | 637             |                  |        |
| 1.        | 2x6x.75          |   |              | 227             |                      | 55          | 227             | 55          | 558             | -                | 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 F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | 11                    |                  | 239                     | 1.005                 | 1.213                         | 1.0278                                  | 3294                 |
| 2.                        |                       |                  |                         |                       |                               |                                         |                      |
| 3.                        |                       |                  |                         |                       |                               |                                         |                      |
| 4.                        |                       |                  |                         |                       |                               |                                         |                      |
| 5.                        |                       |                  |                         |                       |                               |                                         |                      |

  

| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z     | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.          |
|-----|----------------|----------|----------------|-------|------------------------------------------------------|
| 1.  | .36            | 515      | 134            | .9466 | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.     |
| 2.  |                |          |                |       | Specific Gravity Separator Gas _____ X X X X X X X X |
| 3.  |                |          |                |       | Specific Gravity Flowing Fluid _____ X X X X X       |
| 4.  |                |          |                |       | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.      |
| 5.  |                |          |                |       | Critical Temperature _____ R _____ R                 |

  

| NO. | P <sub>i</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) $\frac{P_c^2}{P_c^2 - P_w^2} =$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ |
|-----|-----------------------------|----------------|-----------------------------|-----------------------------------------------------------|-------------------------------------|------------------------------------------------------|
| 1   |                             | 570            | 324900                      | 96301                                                     | 4.3738                              | 3.0244                                               |
| 2   |                             |                |                             |                                                           |                                     |                                                      |
| 3   |                             |                |                             |                                                           |                                     |                                                      |
| 4   |                             |                |                             |                                                           |                                     |                                                      |
| 5   |                             |                |                             |                                                           |                                     |                                                      |

  

|                                                            |  |  |  |                                                               |  |
|------------------------------------------------------------|--|--|--|---------------------------------------------------------------|--|
| P <sub>c</sub> 649      P <sub>c</sub> <sup>2</sup> 421201 |  |  |  | $AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9962$ |  |
|------------------------------------------------------------|--|--|--|---------------------------------------------------------------|--|

  

|                                             |  |                        |  |                |  |
|---------------------------------------------|--|------------------------|--|----------------|--|
| Absolute Open Flow 9962 _____ Mcfd @ 15.025 |  | Angle of Slope @ _____ |  | Slope, n .75   |  |
| Remarks: _____                              |  |                        |  |                |  |
|                                             |  |                        |  |                |  |
| Approved By Commission:                     |  | Conducted By:          |  | Calculated By: |  |
|                                             |  |                        |  |                |  |