

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

Form C-122  
 Revised 9-1-65

|                                                                                                                        |  |                            |  |                                                      |  |                                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|------------------------------------------------------|--|--------------------------------------------------------------------------------------|--|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                            |  |                                                      |  | Test Date<br>9/9/82                                                                  |  |
| Company<br>PETROLEUM CORP. OF TEXAS                                                                                    |  |                            |  | Connection                                           |  |                                                                                      |  |
| Pool<br>Aztec Fruitland                                                                                                |  |                            |  | Formation<br>Fruitland                               |  | Unit                                                                                 |  |
| Completion Date<br>9/2/82                                                                                              |  | Total Depth<br>2082'       |  | Plug Back TD<br>1845'                                |  | Elevation<br>5800'KB                                                                 |  |
| Csg. Size<br>4.500                                                                                                     |  | Wt.<br>10.50               |  | d<br>4.000                                           |  | Set At<br>2115'                                                                      |  |
| Thq. Size<br>1.660                                                                                                     |  | Wt.<br>2.40                |  | d<br>1.380                                           |  | Set At<br>1735'                                                                      |  |
| Perforations:<br>From 1755'    To 1764'                                                                                |  |                            |  | Well No.<br>3J                                       |  |                                                                                      |  |
| Perforations:<br>From Open    To Ended                                                                                 |  |                            |  | Unit    Sec.    Twp.    Rge.<br>P    8    28N    10W |  |                                                                                      |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single - Gas                                                |  |                            |  |                                                      |  | Packer Set At                                                                        |  |
| Producing Thru<br>Tubing                                                                                               |  |                            |  |                                                      |  | State<br>New Mexico                                                                  |  |
| Reservoir Temp. °F<br>90 @ 1764                                                                                        |  | Mean Annual Temp. °F<br>60 |  | Baro. Press. - P <sub>a</sub><br>12.0                |  | County<br>San Juan County                                                            |  |
| L<br>1735                                                                                                              |  | H<br>1735                  |  | G <sub>g</sub><br>.600                               |  | % 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        |                  |   |              |                 |                      |             | 445             |             | 445             |                  | 7 days   |
| 1.        | 3/4" THC         |   |              |                 |                      |             | 60              |             | 195             |                  | 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                         | 12.3650               |                  | 72                      | 1.000                 | 1.000             | 1.000                       | 890                  |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

  

| NO. | P <sub>t</sub> | Temp. °R | T <sub>f</sub> | Z | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.          |
|-----|----------------|----------|----------------|---|------------------------------------------------------|
| 1.  |                |          |                |   | 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                 |

  

|                                                                                                                                                                                                                                                             |                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P <sub>c</sub> 457    P <sub>c</sub> <sup>2</sup> 208,845<br>NO    P <sub>t</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><br>1       207    42,849    165,996<br>2<br>3<br>4<br>5 | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2581$<br>(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2154$<br>AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,081$ |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

  

|                                                                                                          |
|----------------------------------------------------------------------------------------------------------|
| Absolute Open Flow    1,081    Mcfd @ 15.025    Angle of Slope Θ    Slope, n    0.85                     |
| Remarks:                                                                                                 |
| Approved By Commission:    Conducted By: Bill Matthews    Calculated By: Dewayne Blancett    Checked By: |