

**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>11-18-81                                                          |  |
| Company<br>El Paso Natural Gas Company                                                                                    |  |                                                                                                              |  | Connection<br>Northwest Pipeline Corp.                           |  |                                                                                |  |
| Pool<br>Blanco                                                                                                            |  |                                                                                                              |  | Formation<br>Mesa Verde                                          |  | Unit<br>San Juan 28-5                                                          |  |
| Completion Date                                                                                                           |  | Total Depth<br>7890                                                                                          |  | Plug Back TD<br>7882                                             |  | Elevation<br>6590 GR                                                           |  |
| Farm or Lease Name<br>San Juan 28-5                                                                                       |  | Well No.<br>#59M                                                                                             |  | Perforations:<br>From *5090 To 6958                              |  | Csg. Size    Wt.    d    Set At<br>9.625    43.5    8.755    3750              |  |
| Perforations:<br>From                      To                                                                             |  | Unit    Sec.    Twp.    Rge.<br>C    30    28    5                                                           |  | Trg. Size    Wt.    d    Set At<br>1.900    2.9    1.610    5949 |  | Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>G. G. Dual          |  |
| Packer Set At<br>5980                                                                                                     |  | County<br>Rio Arriba                                                                                         |  | Producing Thru<br>Csg.                                           |  | Reservoir Temp. °F<br>Mean Annual Temp. °F<br>Baro. Press. - P <sub>a</sub> 12 |  |
| State<br>New Mexico                                                                                                       |  | L    H    Gg    % CO <sub>2</sub> % N <sub>2</sub> % H <sub>2</sub> S    Prover    Meter Run    Taps<br>.660 |  |                                                                  |  |                                                                                |  |

  

| 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.        |                  |   | .750         | 395             |                      | 57          | 405             |             | 395             |                  | 3 Hours  |
| 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.                        | 12.365                |                  | 407                     | 1.0029                | .9535             | 1.045                       | 5029                 |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

  

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

  

|                                                            |                |                |                             |                                                           |  |                                                             |  |
|------------------------------------------------------------|----------------|----------------|-----------------------------|-----------------------------------------------------------|--|-------------------------------------------------------------|--|
| P <sub>c</sub> 622      P <sub>c</sub> <sup>2</sup> 386884 |                |                |                             | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{386884}{212995}$ |  | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5646$ |  |
| NO.                                                        | P <sub>c</sub> | 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.                                                         |                | 417            | 173889                      | 212995                                                    |  |                                                             |  |
| 2.                                                         |                |                |                             |                                                           |  |                                                             |  |
| 3.                                                         |                |                |                             |                                                           |  |                                                             |  |
| 4.                                                         |                |                |                             |                                                           |  |                                                             |  |
| 5.                                                         |                |                |                             |                                                           |  |                                                             |  |

  

|                                                   |  |  |  |                                       |  |
|---------------------------------------------------|--|--|--|---------------------------------------|--|
| Absolute Open Flow      7868      Mcfd @ 15.025   |  |  |  | Angle of Slope      Slope, n      .75 |  |
| Remarks:      * 7.000" - Liner      3620' - 6144' |  |  |  |                                       |  |
| * 4.500" Liner      6005' - 7890'                 |  |  |  |                                       |  |

  

|                         |                                |                           |             |
|-------------------------|--------------------------------|---------------------------|-------------|
| Approved By Commission: | Conducted By:<br>Gary Gonzales | Calculated By:<br>Ed Mabe | Checked By: |
|-------------------------|--------------------------------|---------------------------|-------------|