

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>11-5-81                 |            |                                          |           |
| Company<br>El Paso Natural Gas Company                                                                                    |            |                         |                   |                                     |                    | Connection<br>Northwest Pipeline Co. |            |                                          |           |
| Basin                                                                                                                     |            |                         |                   |                                     |                    | Formation<br>Dakota                  |            | Unit                                     |           |
| Completion Date<br>10-29-81                                                                                               |            | Total Depth<br>7817     |                   | Plug Back TD<br>7808                |                    | Elevation<br>6518 GR                 |            | Farm or Lease Name<br>San Juan 28-5 Unit |           |
| Coq. Size<br>9.625                                                                                                        | Wt.<br>40  | d<br>8.835              | Set At<br>3698    | Perforations:<br>From *7580 To 7786 |                    | Well No.<br>#57M                     |            |                                          |           |
| Tbg. Size<br>2.375                                                                                                        | Wt.<br>4.7 | d<br>1.995              | Set At<br>7740    | Perforations:<br>From To            |                    | Unit<br>F                            | Sec.<br>19 | Twp.<br>28                               | Rge.<br>5 |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>G. G. Dual                                                     |            |                         |                   |                                     |                    | Packer Set At<br>5938                |            | County<br>Rio Arriba                     |           |
| Producing Thru<br>Tbg.                                                                                                    |            | Reservoir Temp. *F<br>a |                   | Mean Annual Temp. *F                |                    | Baro. Press. - P <sub>a</sub><br>12  |            | State<br>New Mexico                      |           |
| L                                                                                                                         | H          | Gg<br>.660              | % CO <sub>2</sub> | % N <sub>2</sub>                    | % H <sub>2</sub> S | Prover                               | Meter Run  | Taps                                     |           |

  

| FLOW DATA |                        |   |                 |                    |                         |             | TUBING DATA        |             | CASING DATA        |             | Duration<br>of<br>Flow |
|-----------|------------------------|---|-----------------|--------------------|-------------------------|-------------|--------------------|-------------|--------------------|-------------|------------------------|
| NO.       | Prover<br>Line<br>Size | X | Orifice<br>Size | Press.<br>p.s.i.g. | Diff.<br>h <sub>w</sub> | Temp.<br>*F | Press.<br>p.s.i.g. | Temp.<br>*F | Press.<br>p.s.i.g. | Temp.<br>*F |                        |
| SI        |                        |   |                 |                    |                         |             | 1435               |             |                    |             | 7 Days                 |
| 1.        |                        |   | .750            | 90                 |                         | 63          | 90                 |             |                    |             | 3 Hours                |
| 2.        |                        |   |                 |                    |                         |             |                    |             |                    |             |                        |
| 3.        |                        |   |                 |                    |                         |             |                    |             |                    |             |                        |
| 4.        |                        |   |                 |                    |                         |             |                    |             |                    |             |                        |
| 5.        |                        |   |                 |                    |                         |             |                    |             |                    |             |                        |

  

| RATE OF FLOW CALCULATIONS |                          |                  |                            |                                        |                                     |                                               |                         |
|---------------------------|--------------------------|------------------|----------------------------|----------------------------------------|-------------------------------------|-----------------------------------------------|-------------------------|
| NO.                       | Coefficient<br>(24 Hour) | $\sqrt{h_w P_m}$ | Pressure<br>P <sub>m</sub> | Flow Temp.<br>Factor<br>F <sub>t</sub> | Gravity<br>Factor<br>F <sub>g</sub> | Super<br>Compress.<br>Factor, F <sub>pv</sub> | Rate of Flow<br>Q, Mcfd |
| 1                         |                          |                  |                            |                                        |                                     |                                               |                         |
| 2                         |                          |                  |                            |                                        |                                     |                                               | 1210                    |
| 3                         |                          |                  |                            |                                        |                                     |                                               |                         |
| 4                         |                          |                  |                            |                                        |                                     |                                               |                         |
| 5                         |                          |                  |                            |                                        |                                     |                                               |                         |

  

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

  

|                     |                        |                                                             |                             |                                                             |  |
|---------------------|------------------------|-------------------------------------------------------------|-----------------------------|-------------------------------------------------------------|--|
| P <sub>r</sub> 1447 | P <sub>w</sub> 2093809 | $(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{2093809}{2043184}$ |                             | $(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0185$ |  |
| NO.                 | P <sub>r</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                   |                        | 225                                                         | 50625                       | 2043184                                                     |  |
| 2                   |                        |                                                             |                             |                                                             |  |
| 3                   |                        |                                                             |                             |                                                             |  |
| 4                   |                        |                                                             |                             |                                                             |  |
| 5                   |                        |                                                             |                             |                                                             |  |

  

|                                                                           |  |               |                                                                     |                |             |
|---------------------------------------------------------------------------|--|---------------|---------------------------------------------------------------------|----------------|-------------|
| $ACF = 2 \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1232$             |  |               | Absolute Open Flow 1232 Mcfd @ 15.025 Angle of Slope → Slope, n .75 |                |             |
| Remarks: * 7.000" - Liner 3587' - 6157'<br>* 4.500" - Liner 5977' - 7817' |  |               |                                                                     |                |             |
| Approved By Commission:                                                   |  | Conducted By: |                                                                     | Calculated By: | Checked By: |