

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>10-1-81  |                                                    |                      |                                          |  |
| Company<br>El Paso Natural Gas Company                                                                                    |            |                         |                   | Connection<br>El Paso Natural Gas Company |                       |                                                    |                      |                                          |  |
| Pool<br>Basin                                                                                                             |            |                         |                   | Formation<br>Dakota                       |                       |                                                    |                      | Unit                                     |  |
| Completion Date<br>9-24-81                                                                                                |            | Total Depth<br>7924     |                   | Plug Back TD<br>7914                      |                       | Elevation<br>6681 GR                               |                      | Farm or Lease Name<br>San Juan 29-7 Unit |  |
| Csq. Size<br>9.625                                                                                                        | Wt.<br>40  | d<br>8.835              | Set At<br>3902    | Perforations:<br>From *7708    To    7894 |                       | Well No.<br>#70A                                   |                      |                                          |  |
| Tbg. Size<br>2.375                                                                                                        | Wt.<br>4.7 | d<br>1.995              | Set At<br>7870    | Perforations:<br>From    To               |                       | Unit    Sec.    Twp.    Rge.<br>F    35    29    7 |                      |                                          |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>G. G. Dual                                                     |            |                         |                   |                                           | Packer Set At<br>6118 |                                                    | 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 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        |                  |   |              |                 |                      |             | 1234            |             |                 |                  | 7 Days   |
| 1.        |                  |   | .750         | 30              |                      | 60          | 30              |             |                 |                  | 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                |                  | 42                      | 1.000                 | .9535             | 1.004                       | 497                  |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

  

| NO. | P <sub>t</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> 1246 | P <sub>c</sub> <sup>2</sup> 1552516 | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1552516}{1543867}$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0042$ |
| NO                  | 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                   | 93                                  | 8649                                                        | 1543867                                                     |
| 2                   |                                     |                                                             |                                                             |
| 3                   |                                     |                                                             |                                                             |
| 4                   |                                     |                                                             |                                                             |
| 5                   |                                     |                                                             |                                                             |

  

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 499$

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|                                      |  |                  |              |
|--------------------------------------|--|------------------|--------------|
| Absolute Open Flow 499 Mcfd @ 15.025 |  | Angle of Slope θ | Slope, n .75 |
|--------------------------------------|--|------------------|--------------|

  

|                                          |  |
|------------------------------------------|--|
| Remarks: * 7.000" - Liner 3736' -- 6244' |  |
| * 4.500" - Liner 6133' -- 7924'          |  |

  

|                         |                                 |                           |             |
|-------------------------|---------------------------------|---------------------------|-------------|
| Approved By Commission: | Conducted By:<br>N. L. Waggoner | Calculated By:<br>Ed Mabe | Checked By: |
|-------------------------|---------------------------------|---------------------------|-------------|