

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>4-02-81                                      |                                       |
| Company<br>Northwest Pipeline Corporation                                                                                                                                                                                                                                                                                                             |                             |                                  |                             | Connection<br>New Completion                              |                                       |
| Pool<br>So. Los Pinos                                                                                                                                                                                                                                                                                                                                 |                             |                                  |                             | Formation<br>Pictured Cliffs                              |                                       |
| Completion Date<br>3-24-81                                                                                                                                                                                                                                                                                                                            |                             | Total Depth<br>3750'             |                             | Plug Back TD<br>3694'                                     |                                       |
|                                                                                                                                                                                                                                                                                                                                                       |                             | Elevation<br>6675'               |                             | Farm or Lease Name<br>San Juan 32-7 Unit                  |                                       |
| Csg. Size<br>2.875                                                                                                                                                                                                                                                                                                                                    | Wt.<br>6.4                  | d<br>2.441                       | Set At<br>3706'             | Perforations:<br>From 3866' To 3947'                      |                                       |
| Trg. Size<br>None                                                                                                                                                                                                                                                                                                                                     | Wt.                         | d                                | Set At                      | Perforations:<br>From To                                  |                                       |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Gas - Tubingless Completion                                                                                                                                                                                                                                                                |                             |                                  |                             | Packer Set At<br>None                                     |                                       |
| Producing Thru<br>Casing                                                                                                                                                                                                                                                                                                                              |                             |                                  |                             | Reservoir Temp. °F<br>12.0                                |                                       |
| State<br>New Mexico                                                                                                                                                                                                                                                                                                                                   |                             |                                  |                             | County<br>San Juan                                        |                                       |
| L                                                                                                                                                                                                                                                                                                                                                     | H                           | G <sub>g</sub> est.<br>.680      | % CO <sub>2</sub>           | % N <sub>2</sub>                                          | % H <sub>2</sub> S                    |
|                                                                                                                                                                                                                                                                                                                                                       |                             |                                  |                             | Proves<br>positive<br>choke                               |                                       |
| 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>                  |
| 1.                                                                                                                                                                                                                                                                                                                                                    | 2"                          | X                                | .750                        | 662                                                       | 62°                                   |
| 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>         |
| 1.                                                                                                                                                                                                                                                                                                                                                    | 9.604                       |                                  | 674                         | .998                                                      | 1.214                                 |
| 2.                                                                                                                                                                                                                                                                                                                                                    |                             |                                  |                             |                                                           |                                       |
| 3.                                                                                                                                                                                                                                                                                                                                                    |                             |                                  |                             |                                                           |                                       |
| 4.                                                                                                                                                                                                                                                                                                                                                    |                             |                                  |                             |                                                           |                                       |
| 5.                                                                                                                                                                                                                                                                                                                                                    |                             |                                  |                             |                                                           |                                       |
| NO.                                                                                                                                                                                                                                                                                                                                                   | P <sub>r</sub>              | Temp. °R                         | T <sub>r</sub>              | Z                                                         | Gas Liquid Hydrocarbon Ratio Mcf/bbl. |
| 1.                                                                                                                                                                                                                                                                                                                                                    |                             |                                  |                             |                                                           | A.P.I. Gravity of Liquid Hydrocarbons |
| 2.                                                                                                                                                                                                                                                                                                                                                    |                             |                                  |                             |                                                           | Specific Gravity Separator Gas        |
| 3.                                                                                                                                                                                                                                                                                                                                                    |                             |                                  |                             |                                                           | Specific Gravity Flowing Fluid        |
| 4.                                                                                                                                                                                                                                                                                                                                                    |                             |                                  |                             |                                                           | Critical Pressure                     |
| 5.                                                                                                                                                                                                                                                                                                                                                    |                             |                                  |                             |                                                           | Critical Temperature                  |
| <div style="text-align: center;"> </div>                                                                                                                                                                                                                                                                                                              |                             |                                  |                             |                                                           |                                       |
| P <sub>c</sub>                                                                                                                                                                                                                                                                                                                                        | 1503                        | P <sub>c</sub> <sup>2</sup>      | 2259009                     |                                                           |                                       |
| NO.                                                                                                                                                                                                                                                                                                                                                   | F <sub>r</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.                                                                                                                                                                                                                                                                                                                                                    |                             | 916                              | 839056                      | 1419953                                                   |                                       |
| 2.                                                                                                                                                                                                                                                                                                                                                    |                             | (Calc.)                          |                             |                                                           |                                       |
| 3.                                                                                                                                                                                                                                                                                                                                                    |                             |                                  |                             |                                                           |                                       |
| 4.                                                                                                                                                                                                                                                                                                                                                    |                             |                                  |                             |                                                           |                                       |
| 5.                                                                                                                                                                                                                                                                                                                                                    |                             |                                  |                             |                                                           |                                       |
| <div style="display: flex; justify-content: space-between;"> <div> <math display="block">(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.5909</math> <math display="block">ACF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 12,568</math> </div> <div> <math display="block">(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4839</math> </div> </div> |                             |                                  |                             |                                                           |                                       |
| Absolute Open Flow 12,568 Mcld @ 15.025 Angle of Slope 0 Slope, n .85                                                                                                                                                                                                                                                                                 |                             |                                  |                             |                                                           |                                       |
| Remarks: Well produced light mist of water with a trace of condensate.                                                                                                                                                                                                                                                                                |                             |                                  |                             |                                                           |                                       |
| G1                                                                                                                                                                                                                                                                                                                                                    | 1-e-s                       | FcQ <sup>2</sup>                 | R <sup>2</sup>              | Pt <sup>2</sup>                                           | Pt <sup>2</sup> + R <sup>2</sup>      |
| 2629                                                                                                                                                                                                                                                                                                                                                  | .174                        | 2210595                          | 384644                      | 454276                                                    | 83892                                 |
| Approved By Commission:                                                                                                                                                                                                                                                                                                                               |                             | Conducted By:<br>Fred S. Hamrick |                             | Checked By:<br>B.J. Broughton                             |                                       |

BJB/skw