

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

Form C-122  
 Revised 9-1-65

SIG 7-5-74

|                                                                                                                        |             |                         |                     |                                    |                      |                                         |                    |                                   |                                       |                    |  |
|------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|---------------------|------------------------------------|----------------------|-----------------------------------------|--------------------|-----------------------------------|---------------------------------------|--------------------|--|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |             |                         |                     |                                    |                      | Test Date<br>7-12-74                    |                    |                                   |                                       |                    |  |
| Company<br>Northwest Pipeline Corporation                                                                              |             |                         |                     |                                    |                      | Connection<br>New Well                  |                    |                                   |                                       |                    |  |
| Pool<br>Blanco                                                                                                         |             |                         |                     |                                    |                      | Formation<br>Pictured Cliffs            |                    |                                   |                                       | Unit<br>Cox Canyon |  |
| Completion Date<br>7-1-74                                                                                              |             |                         | Total Depth<br>3695 |                                    | Plug Back TD<br>3688 |                                         | Elevation<br>6862' |                                   | Farm or Lease Name<br>Cox Canyon Unit |                    |  |
| Csg. Size<br>2 7/8"                                                                                                    | Wt.<br>6.4# | d<br>2.441              | Set At<br>3694      | Perforations:<br>From 3562 To 3574 |                      |                                         |                    | Well No.<br>15                    |                                       |                    |  |
| Tbg. Size                                                                                                              | Wt.         | d                       | Set At              | Perforations:<br>From To           |                      |                                         |                    | Unit Sec. Twp. Rge.<br>B 21 32 11 |                                       |                    |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Tubingless completion                                       |             |                         |                     |                                    |                      | Packer Set At<br>-                      |                    | County<br>San Juan                |                                       |                    |  |
| Producing Thru<br>Casing                                                                                               |             | Reservoir Temp. °F<br># |                     | Mean Annual Temp. °F               |                      | Baro. Press. - P <sub>a</sub><br>12 psi |                    | State<br>New Mexico               |                                       |                    |  |
| L                                                                                                                      | H           | G <sub>g</sub>          | % CO <sub>2</sub>   | % N <sub>2</sub>                   | % H <sub>2</sub> S   | Prover                                  | Meter Run          | Taps                              |                                       |                    |  |
|                                                                                                                        |             | .635                    | -                   | -                                  | -                    | 3/4" 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> | Temp. °F    | Press. p.s.i.g. | Temp. °F    | Press. p.s.i.g. |                  | Temp. °F |
| SI        |                  |   |              | -               | -                    | -           | -               | -           | 872             | -                | 7d       |
| 1.        | .750 choke       |   |              |                 |                      |             |                 |             | 171             | 68°              | 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 F <sub>g</sub> | Super Compress Factor F <sub>sp</sub> | Rate of Flow Q, Mcfd |
| 1                         | 12.365                | -                | 183                     | .9924                 | .9721                         |                                       | 2,218                |
| 2.                        |                       |                  |                         |                       |                               |                                       |                      |
| 3.                        |                       |                  |                         |                       |                               |                                       |                      |
| 4.                        |                       |                  |                         |                       |                               |                                       |                      |
| 5.                        |                       |                  |                         |                       |                               |                                       |                      |

| NO. | P <sub>t</sub> | Temp. °R | T <sub>f</sub> | Z | Gas Liquid Hydrocarbon Ratio | A.P.I. Gravity of Liquid Hydrocarbons | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure P.S.I.A. | Critical Temperature R | Mcf/bbl. Deg. |
|-----|----------------|----------|----------------|---|------------------------------|---------------------------------------|--------------------------------|--------------------------------|----------------------------|------------------------|---------------|
| 1.  |                |          |                |   |                              |                                       |                                | XXXXXX                         |                            |                        |               |
| 2.  |                |          |                |   |                              |                                       |                                | XXXXXX                         |                            |                        |               |
| 3.  |                |          |                |   |                              |                                       |                                |                                |                            |                        |               |
| 4.  |                |          |                |   |                              |                                       |                                |                                |                            |                        |               |
| 5.  |                |          |                |   |                              |                                       |                                |                                |                            |                        |               |

| NO. | P <sub>t</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{781,456}{724,812}$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0660$ |
|-----|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| 1   |                             |                             |                             |                                                           |                                                             |                                                             |
| 2   |                             |                             |                             |                                                           |                                                             |                                                             |
| 3   |                             |                             |                             |                                                           |                                                             |                                                             |
| 4   |                             |                             |                             |                                                           |                                                             |                                                             |
| 5   |                             |                             |                             |                                                           |                                                             |                                                             |

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,364$  calculated P.W.

|                                        |  |                  |  |               |  |
|----------------------------------------|--|------------------|--|---------------|--|
| Absolute Open Flow 2,364 Mcfd @ 15.025 |  | Angle of Slope @ |  | Slope, n = 85 |  |
|----------------------------------------|--|------------------|--|---------------|--|

|             |       |                  |                |                 |                                  |     |
|-------------|-------|------------------|----------------|-----------------|----------------------------------|-----|
| Remarks: G1 | 1-e-s | PcQ <sup>2</sup> | R <sup>2</sup> | PT <sup>2</sup> | PT <sup>2</sup> + R <sup>2</sup> | PW  |
| 2262        | 152   | 151588           | 23,041         | 33,489          | 56,530                           | 238 |

**Well produced dry gas through-out test.**

|                         |                                  |                                   |                                        |
|-------------------------|----------------------------------|-----------------------------------|----------------------------------------|
| Approved By Commission: | Conducted By:<br>Bobby Broughton | Calculated By:<br>Bobby Broughton | Checked By:<br><i>Robert E. Filler</i> |
|-------------------------|----------------------------------|-----------------------------------|----------------------------------------|