

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

Form 1-127  
Revised 9-1-65

|                                                                                                                           |  |             |                         |            |                              |                   |                                       |                                    |                                          |                                 |  |
|---------------------------------------------------------------------------------------------------------------------------|--|-------------|-------------------------|------------|------------------------------|-------------------|---------------------------------------|------------------------------------|------------------------------------------|---------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |             |                         |            | Test Date<br>10/8/75         |                   |                                       |                                    |                                          |                                 |  |
| Company<br>Northwest Pipeline Corporation                                                                                 |  |             |                         |            | Connection<br>New Completion |                   |                                       |                                    |                                          |                                 |  |
| Pool<br>Blanco                                                                                                            |  |             |                         |            | Formation<br>Mesa Verde      |                   |                                       |                                    |                                          | Unit<br>San Juan 30-5           |  |
| Completion Date<br>9/28/75                                                                                                |  |             | Total Depth<br>5906     |            | Plug Back TD<br>5862         |                   | Elevation<br>6394                     |                                    | Farm or Lease Name<br>San Juan 30-5 Unit |                                 |  |
| Csg. Size<br>4.500                                                                                                        |  | Wt.<br>10.5 |                         | d<br>4.052 |                              | Set At<br>5905    |                                       | Perforations:<br>From 5320 To 5820 |                                          | Well No.<br>#44                 |  |
| Tbg. Size<br>2.375                                                                                                        |  | Wt.<br>4.7  |                         | d<br>1.995 |                              | Set At<br>5790    |                                       | Perforations:<br>From To           |                                          | Unit Sec. Twp. Rge.<br>L 6 30 5 |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Gas - Single                                                   |  |             |                         |            |                              |                   |                                       | Packer Set At<br>None              |                                          | County<br>Rio Arriba            |  |
| Producing Thru<br>Tubing                                                                                                  |  |             | Reservoir Temp. °F<br>θ |            | Mean Annual Temp. °F         |                   | Baro. Press. - P <sub>a</sub><br>12.0 |                                    | State<br>New Mexico                      |                                 |  |
| L                                                                                                                         |  | H           |                         | Gq<br>.585 |                              | % CO <sub>2</sub> |                                       | % N <sub>2</sub>                   |                                          | % H <sub>2</sub> S              |  |
|                                                                                                                           |  |             |                         |            |                              |                   |                                       | Prover<br>3/4" Choke               |                                          | Meter Run<br>4" flange          |  |

  

| 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        |                        |   |                 |                    |                         |             | 1139               |             | 1132               |             | SIP                    |
| 1.        | 2" X 3/4               |   |                 | 242                |                         | 67°         | 242                |             | 609                |             | 3 hr                   |
| 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                         | 12.365                   |                  | 254                        | .9924                                  | 1.012                               | 1.019                                         | 3214                    |
| 2.                        |                          |                  |                            |                                        |                                     |                                               |                         |
| 3.                        |                          |                  |                            |                                        |                                     |                                               |                         |
| 4.                        |                          |                  |                            |                                        |                                     |                                               |                         |
| 5.                        |                          |                  |                            |                                        |                                     |                                               |                         |

  

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

  

| NO. | P <sub>i</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   |                             | 621            | 385641                      | 923095                                                    |
| 2   |                             |                |                             |                                                           |
| 3   |                             |                |                             |                                                           |
| 4   |                             |                |                             |                                                           |
| 5   |                             |                |                             |                                                           |

P<sub>c</sub> 1144      P<sub>c</sub><sup>2</sup> 1308736

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4177$       (2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2993$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4176$

  

|                                                 |  |                  |              |
|-------------------------------------------------|--|------------------|--------------|
| Absolute Open Flow      4176      Mcfd @ 15.025 |  | Angle of Slope θ | Slope, n .75 |
|-------------------------------------------------|--|------------------|--------------|

  

Remarks: Well produced very light mist through out test.

  

|                         |                                  |                                   |                     |
|-------------------------|----------------------------------|-----------------------------------|---------------------|
| Approved By Commission: | Conducted By:<br>Fred S. Hamrick | Calculated By:<br>Fred S. Hamrick | Checked By:<br>ROR. |
|-------------------------|----------------------------------|-----------------------------------|---------------------|