

**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>4-3-77                     |                      |
| Company<br>Aztec Oil & Gas Company                                                                                        |                             |                         |                             | Connection<br>Southern Union Gathering                    |                                                                                                                                                                                                                                                     |                                         |                      |
| Pool<br>Blanco                                                                                                            |                             |                         |                             | Formation<br>Mesa Verde                                   |                                                                                                                                                                                                                                                     | Unit                                    |                      |
| Completion Date<br>3-23-77                                                                                                |                             | Total Depth<br>5473'    |                             | Plug Back TD<br>5460                                      |                                                                                                                                                                                                                                                     | Elevation<br>6292 GL                    |                      |
| Csg. Size<br>7.000<br>4.500                                                                                               |                             | Wt.<br>20#<br>11.60#    |                             | Set At<br>3121<br>2985-5471                               |                                                                                                                                                                                                                                                     | Perforations:<br>From 5121 To 5407      |                      |
| Tbg. Size<br>2.375                                                                                                        |                             | Wt.<br>4.7#             |                             | Set At<br>1.995<br>5399                                   |                                                                                                                                                                                                                                                     | Perforations:<br>From To                |                      |
| Type Well - Single - Brdenhead - G.G. or G.O. Multiple<br>Single                                                          |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     | Packer Set At                           |                      |
| Producing Thru<br>Tbg                                                                                                     |                             | Reservoir Temp. °F<br>@ |                             | Mean Annual Temp. °F                                      |                                                                                                                                                                                                                                                     | Baro. Press. - P <sub>a</sub><br>12.2   |                      |
| L                                                                                                                         |                             | H                       |                             | Gg<br>.700                                                |                                                                                                                                                                                                                                                     | % CO <sub>2</sub>                       |                      |
|                                                                                                                           |                             |                         |                             | % N <sub>2</sub>                                          |                                                                                                                                                                                                                                                     | % H <sub>2</sub> S                      |                      |
|                                                                                                                           |                             |                         |                             | Prover                                                    |                                                                                                                                                                                                                                                     | Meter Run                               |                      |
|                                                                                                                           |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     | Taps.                                   |                      |
| FLOW DATA                                                                                                                 |                             |                         |                             | TUBING DATA                                               |                                                                                                                                                                                                                                                     | CASING DATA                             |                      |
| NO.                                                                                                                       | Prover Line Size            | X                       | Orifice Size                | Press. p.s.i.g.                                           | Diff. h <sub>w</sub>                                                                                                                                                                                                                                | Temp. °F                                | Duration of Flow     |
| SI                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |
| 1.                                                                                                                        | 2" X 3/4"                   |                         |                             |                                                           |                                                                                                                                                                                                                                                     | 655                                     |                      |
| 2.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     | 250                                     |                      |
| 3.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     | 240                                     |                      |
| 4.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     | 227                                     |                      |
| 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>pv</sub> | Rate of Flow Q, Mcfd |
| 1                                                                                                                         | 12.365                      |                         | 239.2                       | 1.0000                                                    | .9258                                                                                                                                                                                                                                               | 1.0000                                  | 2738                 |
| 2.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |
| 3.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |
| 4.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |
| 5.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |
| NO.                                                                                                                       | P <sub>t</sub>              | Temp. °R                | T <sub>f</sub>              | Z                                                         | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.<br>A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.<br>Specific Gravity Separator Gas _____<br>Specific Gravity Flowing Fluid _____<br>Critical Pressure _____ P.S.I.A.<br>Critical Temperature _____ R |                                         |                      |
| 1.                                                                                                                        |                             |                         |                             |                                                           | X X X X X X X X                                                                                                                                                                                                                                     |                                         |                      |
| 2.                                                                                                                        |                             |                         |                             |                                                           | X X X X X                                                                                                                                                                                                                                           |                                         |                      |
| 3.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |
| 4.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |
| 5.                                                                                                                        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |
| P <sub>c</sub> 667.2    P <sub>c</sub> <sup>2</sup> 445,156                                                               |                             |                         |                             |                                                           | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.4485$ (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.5306$                                                                                                                                              |                                         |                      |
| NO.                                                                                                                       | P <sub>t</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> | AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6929$                                                                                                                                                                                       |                                         |                      |
| 1                                                                                                                         |                             | 562.2                   | 316,069                     | 129,087                                                   |                                                                                                                                                                                                                                                     |                                         |                      |
| 2                                                                                                                         |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |
| 3                                                                                                                         |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |
| 4                                                                                                                         |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |
| 5                                                                                                                         |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |
| Absolute Open Flow 6929 Mcfd @ 15.025                                                                                     |                             |                         |                             |                                                           | Angle of Slope $\theta$                                                                                                                                                                                                                             |                                         | Slope, n .75         |
| Remarks:                                                                                                                  |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |
| Approved By Commission:    Conducted By: Norman Harland    Calculated By: <i>James Smith</i> Checked By: <i>OR</i>        |                             |                         |                             |                                                           |                                                                                                                                                                                                                                                     |                                         |                      |