

**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>7-2-73 |                                                      |
| Company<br>Aztec Oil & Gas Company                                                                                        |   |                         |                   | Connection<br>El Paso Natural Gas Company |                     |                                                      |
| Pool<br>Basin                                                                                                             |   |                         |                   | Formation<br>Dakota                       |                     | Unit                                                 |
| Completion Date<br>6-24-73                                                                                                |   | Total Depth<br>8700'    |                   | Plug Back TD<br>8608'                     |                     | Elevation<br>7063 GR                                 |
| Csg. Size<br>4 1/2"                                                                                                       |   | Wt.<br>11.60#           |                   | Set At<br>6423-8700                       |                     | Well No.<br>#2                                       |
| Tbg. Size<br>2-3/8"                                                                                                       |   | Wt.<br>4.70#            |                   | Set At<br>8472'                           |                     | Perforations:<br>From 8510 To 8566                   |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Multiple                                                       |   |                         |                   | Packer Set At<br>8480'                    |                     | Unit    Sec.    Twp.    Rge.<br>L    12    32N    8W |
| Producing Thru<br>Tubing                                                                                                  |   | Reservoir Temp. °F<br>@ |                   | Mean Annual Temp. °F<br>@                 |                     | Baro. Press. - P <sub>a</sub><br>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                          |

  

| FLOW DATA |                        |   |                 |                    |                         | TUBING DATA |                    | CASING DATA |                    | Duration<br>of<br>Flow |             |
|-----------|------------------------|---|-----------------|--------------------|-------------------------|-------------|--------------------|-------------|--------------------|------------------------|-------------|
| NO.       | Prover<br>Line<br>Size | X | Critice<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        |                        |   |                 |                    |                         |             | 1730               |             |                    |                        | 7 hr        |
| 1.        | 2"                     |   | 3/4"            |                    |                         |             | 210                |             |                    |                        | 3 Hours     |
| 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                   |                  | 210                        | 1.0000                                 | .9258                               | 1.0000                                        | 2404                    |
| 2.                        |                          |                  |                            |                                        |                                     |                                               |                         |
| 3.                        |                          |                  |                            |                                        |                                     |                                               |                         |
| 4.                        |                          |                  |                            |                                        |                                     |                                               |                         |
| 5.                        |                          |                  |                            |                                        |                                     |                                               |                         |

  

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

  

|                                  |                             |                |                             |                                                           |
|----------------------------------|-----------------------------|----------------|-----------------------------|-----------------------------------------------------------|
| $P_c = 1730$ $P_c^2 = 2,992,900$ |                             |                |                             |                                                           |
| 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> |
| 1                                |                             | 473            | 223,729                     | 2,769,171                                                 |
| 2.                               |                             |                |                             |                                                           |
| 3.                               |                             |                |                             |                                                           |
| 4.                               |                             |                |                             |                                                           |
| 5.                               |                             |                |                             |                                                           |

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0807$

$(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0599$

$AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2548$

Absolute Open Flow **2548** Mcfd @ 15.025

Angle of Slope  $\phi$  \_\_\_\_\_

Remarks: \_\_\_\_\_

Approved By Commission: \_\_\_\_\_

Conducted By: \_\_\_\_\_

Calculated By: *J. Johnson*

Checked By: \_\_\_\_\_

