

**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>9-14-76    |                                   |
| Company<br>Continental Oil Co                                                                                             |           |                                    |                                     | Connection<br>None      |                                   |
| Pool<br>Blanco                                                                                                            |           |                                    |                                     | Formation<br>Mesa Verde |                                   |
| Completion Date<br>9-2-76                                                                                                 |           | Total Depth<br>5900                |                                     | Plug Back TD<br>5830    |                                   |
| Elevation<br>6950                                                                                                         |           | Farm or Lease Name<br>AXI Apache K |                                     |                         |                                   |
| Csg. Size<br>5 1/2                                                                                                        | Wt.<br>d  | Set At<br>5897                     | Perforations:<br>From 5216 To 5790  |                         | Well No.<br>2-A                   |
| Tbg. Size<br>2 3/8                                                                                                        | Wt.<br>d  | Set At<br>5810                     | Perforations:<br>From Open To Ended |                         | Unit Sec. Twp. Rge.<br>P 4 26N 5W |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |           |                                    |                                     | Packer Set At<br>None   |                                   |
| Producing Thru<br>+6g                                                                                                     |           |                                    |                                     | County<br>Rio Arriba    |                                   |
| Reservoir Temp. °F<br>148 • 5810                                                                                          |           | Mean Annual Temp. °F<br>50         |                                     | State<br>N.M.           |                                   |
| L<br>5810                                                                                                                 | H<br>5810 | Gg<br>.695                         | % CO <sub>2</sub>                   | % N <sub>2</sub>        | % H <sub>2</sub> S                |
| Prover                                                                                                                    |           | Meter Run                          |                                     | Taps                    |                                   |

  

| FLOW DATA |                    |   |              |                 |          |          | TUBING DATA     |          | CASING DATA     |          | Duration of Flow |
|-----------|--------------------|---|--------------|-----------------|----------|----------|-----------------|----------|-----------------|----------|------------------|
| NO.       | Prover Line Size   | X | Orifice Size | Press. p.s.i.g. | Diff. hw | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F |                  |
| SI        |                    |   |              |                 |          |          | 764             | 70       | 772             | 70       |                  |
| 1.        | 3/4" choked nipple |   |              | 162             |          | 56       | 162             | 56       | 458             | 70       | 3 hr.            |
| 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 Fg | Super. Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1                         | 9.604                 |                  | 174                     | 1.004                 | 1.20              | 1.021                        | 2.056                |
| 2.                        |                       |                  |                         |                       |                   |                              |                      |
| 3.                        |                       |                  |                         |                       |                   |                              |                      |
| 4.                        |                       |                  |                         |                       |                   |                              |                      |
| 5.                        |                       |                  |                         |                       |                   |                              |                      |

  

| NO. | P <sub>t</sub> | Temp. °R | T <sub>f</sub> | Z   | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.          |
|-----|----------------|----------|----------------|-----|------------------------------------------------------|
| 1.  | 126            | 516      | 1.33           | .96 | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.     |
| 2.  |                |          |                |     | Specific Gravity Separator Gas _____ 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                 |

  

| NO. | P <sub>t</sub> | P <sub>w</sub> | P <sub>c</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
|-----|----------------|----------------|-----------------------------|-----------------------------|-----------------------------------------------------------|
| 1   | 30276          | 459            | 269764                      | 396220                      |                                                           |
| 2   |                |                |                             |                             |                                                           |
| 3   |                |                |                             |                             |                                                           |
| 4   |                |                |                             |                             |                                                           |
| 5   |                |                |                             |                             |                                                           |

  

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = 1.543$

(2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.385$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,847$

P<sub>c</sub> 772      P<sub>c</sub><sup>2</sup> 595994

  

|                    |       |               |                        |               |
|--------------------|-------|---------------|------------------------|---------------|
| Absolute Open Flow | 2,847 | Mcfd @ 15.025 | Angle of Slope @ _____ | Slope, n = 75 |
|--------------------|-------|---------------|------------------------|---------------|

  

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

  

|                         |                              |                               |                   |
|-------------------------|------------------------------|-------------------------------|-------------------|
| Approved By Commission: | Conducted By:<br>F.T. Chavez | Calculated By:<br>F.T. Chavez | Checked By: _____ |
|-------------------------|------------------------------|-------------------------------|-------------------|

  

NMOCB - AZTEC (15) USGS - DURANGO (2) FILE