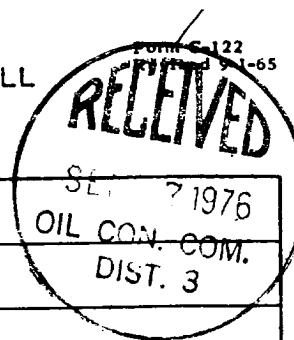


**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**



|                                                                                                                           |                    |                                         |                                   |                                                   |                                           |  |
|---------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------|-----------------------------------|---------------------------------------------------|-------------------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                    |                                         |                                   |                                                   | Test Date<br><b>8-27-76</b>               |  |
| Company<br><b>Continental Oil Co.</b>                                                                                     |                    |                                         | Connection<br><b>None</b>         |                                                   |                                           |  |
| Pool<br><b>Blanco</b>                                                                                                     |                    |                                         | Formation<br><b>Mesa Verde</b>    |                                                   |                                           |  |
| Completion Date<br><b>8-16-76</b>                                                                                         |                    | Total Depth<br><b>6240</b>              | Plug Back TD<br><b>6170</b>       | Elevation<br><b>7232</b>                          | Farm or Lease Name<br><b>AXI Apache K</b> |  |
| Cog. Size<br><b>5 1/2</b>                                                                                                 | Wt.<br><b>15.5</b> | d<br>                                   | Set At<br><b>6240</b>             | Perforations:<br>From <b>5593</b> To <b>6158</b>  |                                           |  |
| Trq. Size<br><b>2 3/8</b>                                                                                                 | Wt.<br><b>4.7</b>  | d<br>                                   | Set At<br><b>6159</b>             | Perforations:<br>From <b>OPEN</b> To <b>Ended</b> |                                           |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br><b>Single</b>                                                  |                    |                                         |                                   | Packer Set At<br><b>N/A</b>                       | County<br><b>Rio Arriba</b>               |  |
| Producing Thru<br><b>Tbg.</b>                                                                                             |                    | Reservoir Temp. °F<br><b>150 @ 6140</b> | Mean Annual Temp. °F<br><b>50</b> | Baro. Press. - P <sub>a</sub><br><b>12.2</b>      | State<br><b>New Mexico</b>                |  |
| <b>6159</b>                                                                                                               | H<br><b>6159</b>   | 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 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 |                  |
| 1.        | 2 5/32" Choice   |   |              | 185             |                      | 78       | 185             | 80       | 320             | 80       | 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>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | 10.05                 |                  | 197.2                   | .9831                 | 1.213                         | 1.020                                   | 2,411                |
| 2.                        |                       |                  |                         |                       |                               |                                         |                      |
| 3.                        |                       |                  |                         |                       |                               |                                         |                      |
| 4.                        |                       |                  |                         |                       |                               |                                         |                      |
| 5.                        |                       |                  |                         |                       |                               |                                         |                      |

| NO. | P <sub>i</sub> | Temp. °R | T <sub>r</sub> | Z    | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.          |
|-----|----------------|----------|----------------|------|------------------------------------------------------|
| 1.  | 295            | 538      | 1,397          | .962 | 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>i</sub> | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>e</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
|-----|----------------|----------------|-----------------------------|-----------------------------------------------------------|
| 1   | 3888           | 501            | 251001                      | 421399                                                    |
| 2.  |                |                |                             |                                                           |
| 3.  |                |                |                             |                                                           |
| 4.  |                |                |                             |                                                           |
| 5.  |                |                |                             |                                                           |

$$(1) \frac{P_e^2}{P_e^2 - P_w^2} = 1.596$$

$$AOF = Q \left[ \frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 3408$$

$$(2) \left[ \frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.420$$

|                    |             |                |                         |                     |
|--------------------|-------------|----------------|-------------------------|---------------------|
| Absolute Open Flow | <b>3408</b> | Mcf/d @ 15.025 | Angle of Slope $\theta$ | Slope, n <b>.75</b> |
|--------------------|-------------|----------------|-------------------------|---------------------|

Remarks:

|                         |                                         |                                          |             |
|-------------------------|-----------------------------------------|------------------------------------------|-------------|
| Approved By Commission: | Conducted By:<br><b>Frank T. Chavez</b> | Calculated By:<br><b>Frank T. Chavez</b> | Checked By: |
|-------------------------|-----------------------------------------|------------------------------------------|-------------|

NMO-22-27EC (5) - USGS (2) - FILE