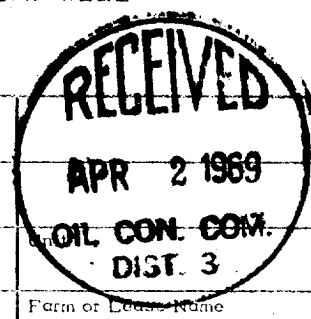


**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

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>3-27-69                                      |                                                                                                        |                                                         |                        |
| Company<br>Continental Oil Company                                                                                        |                             |                           |                             | Connection<br>Pending                                     |                                                                                                        |                                                         |                        |
| Pool<br>Otero                                                                                                             |                             |                           |                             | Formation<br>Chacra                                       |                                                                                                        |                                                         |                        |
| Completion Date<br>2-27-69                                                                                                |                             | Total Depth<br>3860' KB   |                             | Plug Back TD<br>6694' KB                                  |                                                                                                        | Elevation<br>6694' KB                                   |                        |
| Csq. Size<br>4.500                                                                                                        |                             | Wt.<br>11.60              |                             | Set A<br>3860' KB                                         |                                                                                                        | Perforations: 3672 To 3696' KB<br>From 3776 To 3790' KB |                        |
| Tbg. Size<br>1.990                                                                                                        |                             | Wt.<br>2.76               |                             | Set A<br>3799' GI                                         |                                                                                                        | Perforations: To                                        |                        |
| Type Well - Single - Bradenhead - G.G. or G.O. Multi to<br>Single                                                         |                             |                           |                             | Packer Set At<br>None                                     |                                                                                                        | Farm or Lease Name<br>AXI Apache "J"                    |                        |
| Producing Thru<br>Tubing                                                                                                  |                             | Reservoir Temp. °F<br>50° |                             | Mean Annual Temp. °F<br>50°                               |                                                                                                        | Baro. Press. - P <sub>d</sub><br>12                     |                        |
| L                                                                                                                         |                             | H                         |                             | G <sub>g</sub>                                            |                                                                                                        | Meter Run                                               |                        |
|                                                                                                                           |                             |                           |                             |                                                           |                                                                                                        |                                                         |                        |
| FLOW DATA                                                                                                                 |                             |                           |                             | TUBING DATA                                               |                                                                                                        | CASING DATA                                             |                        |
| NO.                                                                                                                       | Prover Line Size            | X Choke                   | Orifice Size                | Press. p.s.i.g.                                           | Diff. h <sub>w</sub>                                                                                   | Temp. °F                                                | Press. p.s.i.g.        |
| 1.                                                                                                                        | 3/4"                        |                           |                             | 102                                                       |                                                                                                        | 50                                                      | 105                    |
| 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 F <sub>t</sub>                          | Gravity Factor F <sub>g</sub>                                                                          | Super Compress. Factor, F <sub>pv</sub>                 | Rate of Flow Q, Mscf/d |
| 1.                                                                                                                        | 11.0000                     |                           | 114                         | 1.010                                                     | 1.205                                                                                                  | 1.015                                                   | 1550                   |
| 2.                                                                                                                        |                             |                           |                             |                                                           |                                                                                                        |                                                         |                        |
| 3.                                                                                                                        |                             |                           |                             |                                                           |                                                                                                        |                                                         |                        |
| 4.                                                                                                                        |                             |                           |                             |                                                           |                                                                                                        |                                                         |                        |
| 5.                                                                                                                        |                             |                           |                             |                                                           |                                                                                                        |                                                         |                        |
| NO.                                                                                                                       | P <sub>t</sub>              | Temp. °R                  | T <sub>f</sub>              | Z                                                         | Gas Liquid Hydrocarbon Ratio <u>Dry Gas</u> Mscf/lbl.                                                  |                                                         |                        |
| 1.                                                                                                                        | .170                        | 510                       | 1.31                        | .97                                                       | A.P.I. Gravity of Liquid Hydrocarbons <u>Dry</u> Deg.                                                  |                                                         |                        |
| 2.                                                                                                                        |                             |                           |                             |                                                           | Specific Gravity Separator Gas <u>XXXXXX</u>                                                           |                                                         |                        |
| 3.                                                                                                                        |                             |                           |                             |                                                           | Specific Gravity Flowing Fluid <u>XXXXX</u> .689                                                       |                                                         |                        |
| 4.                                                                                                                        |                             |                           |                             |                                                           | Critical Pressure <u>669</u> P.S.I.A. <u>669</u> P.S.I.A.                                              |                                                         |                        |
| 5.                                                                                                                        |                             |                           |                             |                                                           | Critical Temperature <u>388</u> °R <u>388</u> °R                                                       |                                                         |                        |
| $P_c = 672$ $P_c^2 = 451.6$                                                                                               |                             |                           |                             |                                                           | $(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.6990$ $(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4870$ |                                                         |                        |
| 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> | $AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2305$                                          |                                                         |                        |
| 1.                                                                                                                        |                             | 431                       | 185.8                       | 265.3                                                     |                                                                                                        |                                                         |                        |
| 2.                                                                                                                        |                             |                           |                             |                                                           |                                                                                                        |                                                         |                        |
| 3.                                                                                                                        |                             |                           |                             |                                                           |                                                                                                        |                                                         |                        |
| 4.                                                                                                                        |                             |                           |                             |                                                           |                                                                                                        |                                                         |                        |
| 5.                                                                                                                        |                             |                           |                             |                                                           |                                                                                                        |                                                         |                        |
| Absolute Open Flow <u>2305</u>                                                                                            |                             |                           |                             | Mscf @ 15.025                                             |                                                                                                        | Angle of Slope <u>0</u>                                 |                        |
| Remarks:                                                                                                                  |                             |                           |                             | Slope, n <u>.75</u>                                       |                                                                                                        |                                                         |                        |
| Approved By Commission:                                                                                                   |                             |                           |                             | Conducted By:<br>E. B. Errett                             |                                                                                                        | Calculated By:<br>J. A. Manza                           |                        |
|                                                                                                                           |                             |                           |                             | Checked By:                                               |                                                                                                        |                                                         |                        |