

**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><b>7-2-73</b>                           |                                                                                                                                                                                                                                                            |                                         |                      |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------|-------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------|
| Company<br><b>AMOCO PRODUCTION COMPANY</b>                                                                                |                       |                                                   |                         | Connection<br><b>El Paso Natural Gas Company</b>     |                                                                                                                                                                                                                                                            |                                         |                      |
| Pool<br><b>Ballard Pictured Cliffs</b>                                                                                    |                       |                                                   |                         | Formation<br><b>Pictured Cliffs</b>                  |                                                                                                                                                                                                                                                            |                                         |                      |
| Completion Date<br><b>6-24-73</b>                                                                                         |                       | Total Depth<br><b>2925'</b>                       |                         | Plug Back TD<br><b>2878'</b>                         |                                                                                                                                                                                                                                                            |                                         |                      |
| Elevation<br><b>7292' GL</b>                                                                                              |                       | Farm or Lease Name<br><b>Jicarilla Tribal 358</b> |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| Csg. Size<br><b>4.500"</b>                                                                                                | Wt.<br><b>9.5#</b>    | d<br><b>4.090</b>                                 | Set At<br><b>2913'</b>  | Perforations:<br>From <b>2774'</b> To <b>2810'</b>   |                                                                                                                                                                                                                                                            |                                         |                      |
| Thq. Size<br><b>1.660"</b>                                                                                                | Wt.<br><b>2.3#</b>    | d<br><b>1.380</b>                                 | Set At<br><b>2764'</b>  | Perforations:<br>From <b>Open</b> To <b>Ended</b>    |                                                                                                                                                                                                                                                            |                                         |                      |
| Type Well - Single - Brokenhead - C.G. or G.O. Multiple<br><b>Single</b>                                                  |                       |                                                   |                         | Packer Set At<br><b>None</b>                         |                                                                                                                                                                                                                                                            |                                         |                      |
| Producing Thru<br><b>Tubing</b>                                                                                           |                       | Reservoir Temp. °F<br><b>60° est.</b>             |                         | Baro. Press. - P <sub>a</sub><br><b>12 psia est.</b> |                                                                                                                                                                                                                                                            |                                         |                      |
| County<br><b>Sandoval</b>                                                                                                 |                       | State<br><b>New Mexico</b>                        |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| L                                                                                                                         | H                     | G <sub>g</sub>                                    | % CO <sub>2</sub>       | % N <sub>2</sub>                                     | % H <sub>2</sub> S                                                                                                                                                                                                                                         |                                         |                      |
|                                                                                                                           |                       | <b>.700</b>                                       |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| FLOW DATA                                                                                                                 |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| NO.                                                                                                                       | Line Size             | X                                                 | Press. p.s.i.g.         | Diff. h <sub>w</sub>                                 | Temp. °F                                                                                                                                                                                                                                                   |                                         |                      |
| 1.                                                                                                                        | <b>8 days</b>         | <b>2"</b>                                         | <b>.750</b>             |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 2.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 3.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 4.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 5.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| TUBING DATA                                                                                                               |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| NO.                                                                                                                       | Press. p.s.i.g.       | Temp. °F                                          | Press. p.s.i.g.         | Temp. °F                                             | Duration of Flow                                                                                                                                                                                                                                           |                                         |                      |
| 1.                                                                                                                        | <b>714</b>            |                                                   | <b>714</b>              |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 2.                                                                                                                        | <b>94</b>             | <b>60° est</b>                                    | <b>574</b>              | <b>60° est</b>                                       | <b>3 hr.</b>                                                                                                                                                                                                                                               |                                         |                      |
| 3.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 4.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 5.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| CASING DATA                                                                                                               |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| NO.                                                                                                                       | Press. p.s.i.g.       | Temp. °F                                          | Press. p.s.i.g.         | Temp. °F                                             | Duration of Flow                                                                                                                                                                                                                                           |                                         |                      |
| 1.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 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.                                                                                                                        | <b>12.365</b>         |                                                   | <b>106</b>              | <b>1</b>                                             | <b>.9258</b>                                                                                                                                                                                                                                               | <b>1.011</b>                            | <b>1227</b>          |
| 2.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 3.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 4.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 5.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| NO.                                                                                                                       | P <sub>t</sub>        | Temp. °R                                          | T <sub>r</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 _____ P.S.I.A. |                                         |                      |
| 1.                                                                                                                        |                       |                                                   |                         |                                                      | JUL 23 1973<br>OIL CON COM<br>DIST. 3                                                                                                                                                                                                                      |                                         |                      |
| 2.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 3.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 4.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| 5.                                                                                                                        |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| <b>726</b> <b>527,076</b><br><b>586</b> <b>343396</b> <b>183680</b>                                                       |                       |                                                   |                         |                                                      | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.8695$ (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.4520$                                                                                                                                                     |                                         |                      |
| AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3009$                                                             |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| Absolute Open Flow <b>3009</b> Mcfd @ 15.025                                                                              |                       |                                                   |                         |                                                      | Angle of Slope $\theta$ _____                                                                                                                                                                                                                              |                                         | Slope, n <b>.85</b>  |
| Remarks:                                                                                                                  |                       |                                                   |                         |                                                      |                                                                                                                                                                                                                                                            |                                         |                      |
| Conducted By:<br><b>J. F. Ellledge</b>                                                                                    |                       | Calculated By:<br><b>J. W. Calvin</b>             |                         | Checked By:<br><b>P. C. Ellison</b>                  |                                                                                                                                                                                                                                                            |                                         |                      |