

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

Form O-122  
Revised 3-1-65

|                                                                                                                                                                                                                                                                            |                       |                              |                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------|-----------------------------------------------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special                                                                                                                                                  |                       | Test Date<br>8-20-76         |                                                           |
| Company<br>Caulkins Oil Company                                                                                                                                                                                                                                            |                       | Connection                   |                                                           |
| Pool<br>South Blanco                                                                                                                                                                                                                                                       |                       | Formation<br>Pictured Cliffs |                                                           |
| Completion Date<br>8-10-76                                                                                                                                                                                                                                                 |                       | Total Depth<br>4020          | Perforations<br>4020                                      |
| Csg. Size<br>4 1/2"                                                                                                                                                                                                                                                        |                       | Wt.<br>10.5                  | Set At<br>4020                                            |
| Tbg. Size<br>1"                                                                                                                                                                                                                                                            |                       | Wt.<br>1.7                   | Set At<br>3015                                            |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>G.G. Multiple                                                                                                                                                                                                   |                       | Packer Set At<br>3074        | Well No.<br>51                                            |
| Producing Thru<br>Tubing                                                                                                                                                                                                                                                   |                       | Reservoir Temp. °F<br>a      | Mean Annual Temp. °F                                      |
| County<br>Rio Arriba                                                                                                                                                                                                                                                       |                       | State<br>New Mexico          |                                                           |
| L                                                                                                                                                                                                                                                                          | H                     | Gg                           | % CO <sub>2</sub>                                         |
| FLOW DATA                                                                                                                                                                                                                                                                  |                       | TUBING DATA                  |                                                           |
| NO.                                                                                                                                                                                                                                                                        | Prover Line Size      | Orifice Size                 | Press. p.s.i.g.                                           |
| 1                                                                                                                                                                                                                                                                          | 7 days                |                              |                                                           |
| 2                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| 3                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| 4                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| 5                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| RATE OF FLOW CALCULATIONS                                                                                                                                                                                                                                                  |                       |                              |                                                           |
| NO.                                                                                                                                                                                                                                                                        | Coefficient (24 Hour) | $\sqrt{h_w P_m}$             | Pressure P <sub>m</sub>                                   |
| 1                                                                                                                                                                                                                                                                          | 14.1605               |                              | 75                                                        |
| 2                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| 3                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| 4                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| 5                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| NO.                                                                                                                                                                                                                                                                        | P <sub>t</sub>        | Temp. °R                     | T <sub>r</sub>                                            |
| 1                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| 2                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| 3                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| 4                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| 5                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| Gas Liquid Hydrocarbon Ratio _____ Mol/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. _____ P.S.I.A.<br>Critical Temperature _____ R _____ R |                       |                              |                                                           |
| NO.                                                                                                                                                                                                                                                                        | P <sub>t</sub>        | P <sub>w</sub>               | P <sub>t</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
| 1                                                                                                                                                                                                                                                                          | 772                   | 517                          | 627,263                                                   |
| 2                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| 3                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| 4                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| 5                                                                                                                                                                                                                                                                          |                       |                              |                                                           |
| (1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.71$ $\left[ \frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.6012$<br>$\left[ \frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.71$                                                                                                                  |                       |                              |                                                           |
| Absolute Gas Flow _____ Mscf/D $Q_g = 15,000$ $Q_g = 15,000$ $Q_g = 15,000$                                                                                                                                                                                                |                       |                              |                                                           |
| Remarks:                                                                                                                                                                                                                                                                   |                       |                              |                                                           |
| Approved by Commission:                                                                                                                                                                                                                                                    |                       | Conducted By:                |                                                           |
| Checked By:                                                                                                                                                                                                                                                                |                       | Checked By:                  |                                                           |