

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-122  
Revised 10-1-78

## 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>10-22-79 |                                    |                      |                                |  |
| Company<br>Caulkins Oil Company                                                                                           |                 |                         |                   | Connection                         |                       |                                    |                      |                                |  |
| Pool<br>Basin Dakota                                                                                                      |                 |                         |                   | Formation<br>Dakota                |                       |                                    |                      | Unit                           |  |
| Completion Date                                                                                                           |                 | Total Depth<br>7323     |                   | Plug Back TD<br>7323               |                       | Elevation<br>6537 Gr.              |                      | Farm or Lease Name<br>Breech B |  |
| Csq. Size<br>7"                                                                                                           | Wt.<br>23 & 26# | d<br>6.366              | Set At<br>7323    | Perforations:<br>From 7073 To 7240 |                       | Well No.<br>220-R                  |                      |                                |  |
| Tbg. Size<br>2 3/8"                                                                                                       | Wt.<br>4.7#     | d<br>1.991              | Set At<br>7230    | Perforations:<br>From 7230 To      |                       | Unit Sec. Twp. Rye.<br>B 14 26N 7W |                      |                                |  |
| Type Well - Single - Blindhead - G.G. or G.O. Multiple<br>Dual G-G Commingle and Dakota                                   |                 |                         |                   |                                    | Packer Set At<br>5283 |                                    | County<br>Rio Arriba |                                |  |
| Producing Thru<br>Tubing                                                                                                  |                 | Reservoir Temp. °F<br>0 |                   | Mean Annual Temp. °F               |                       | Baro. Press. - P <sub>a</sub>      |                      | State<br>New Mexico            |  |
| L                                                                                                                         | H               | 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 |                  |
| SI        |                  |   |              |                 |                      |          | 1719            |          | PKR             |          | 7 Days           |
| 1.        |                  |   | 3/4          |                 |                      |          | 56              |          | PKR             |          | 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 Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1                         | 14.1605               |                  | 68                      | 1.000                 | 1.000             | 1.000                       | 963                  |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

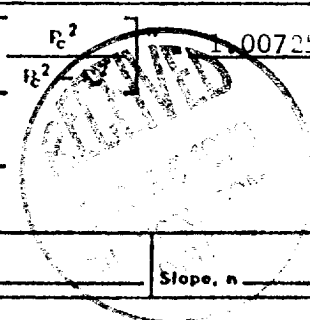
| NO. | P <sub>f</sub> | Temp. °R | T <sub>f</sub> | Z | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.      |  |
|-----|----------------|----------|----------------|---|--------------------------------------------------|--|
| 1   |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. |  |
| 2.  |                |          |                |   | Specific Gravity Separator Gas _____ XXXXXXXXXX  |  |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid _____ XXXXXX      |  |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.  |  |
| 5.  |                |          |                |   | Critical Temperature _____ R _____ R             |  |

| NO. | P <sub>f</sub> | P <sub>w</sub> | P <sub>f</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>f</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_f^2 - P_w^2} =$ | (2) $\left[ \frac{P_c^2}{P_f^2 - P_w^2} \right]^n =$ |
|-----|----------------|----------------|-----------------------------|-----------------------------|-----------------------------------------------------------|-------------------------------------|------------------------------------------------------|
| 1   | 4,624          | 169            | 28,733                      | 2,967,688                   |                                                           | 1.0097                              | 1.00725                                              |
| 2   |                |                |                             |                             |                                                           |                                     |                                                      |
| 3   |                |                |                             |                             |                                                           |                                     |                                                      |
| 4   |                |                |                             |                             |                                                           |                                     |                                                      |
| 5   |                |                |                             |                             |                                                           |                                     |                                                      |

AOF = Q  $\left[ \frac{P_f^2}{P_f^2 - P_w^2} \right]^n = 970$



|                                        |  |                        |  |                |  |
|----------------------------------------|--|------------------------|--|----------------|--|
| Absolute Open Flow _____ Mcfd @ 15.025 |  | Angle of Slope @ _____ |  | Slope, n _____ |  |
| Remarks: _____                         |  |                        |  |                |  |

|                      |               |                |             |
|----------------------|---------------|----------------|-------------|
| Approved By Division | Conducted By: | Calculated By: | Checked By: |
|----------------------|---------------|----------------|-------------|