

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

Form C-122  
 Revised 9-1-65

|                                                                                                                        |  |                 |                                |                |                          |                           |                                         |                                               |                                    |                                        |  |
|------------------------------------------------------------------------------------------------------------------------|--|-----------------|--------------------------------|----------------|--------------------------|---------------------------|-----------------------------------------|-----------------------------------------------|------------------------------------|----------------------------------------|--|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                 |                                |                |                          | Test Date <b>10-10-67</b> |                                         |                                               |                                    |                                        |  |
| Company <b>Caulkins Oil Company</b>                                                                                    |  |                 |                                |                |                          | Connection                |                                         |                                               |                                    |                                        |  |
| Pool <b>Basin Dakota</b>                                                                                               |  |                 |                                |                |                          | Formation <b>Dakota</b>   |                                         | Unit <b>A</b>                                 |                                    |                                        |  |
| Completion Date <b>10-2-67</b>                                                                                         |  |                 | Total Depth <b>7470</b>        |                | Plug Back TD <b>7448</b> |                           | Elevation <b>6514 DF</b>                |                                               | Farm or Lease Name <b>Breesh A</b> |                                        |  |
| Csg. Size <b>4 1/2"</b>                                                                                                |  | Wt. <b>11.6</b> |                                | d <b>4.000</b> |                          | Set At <b>6670</b>        |                                         | Perforations: From <b>7152</b> To <b>7448</b> |                                    | Well No. <b>132</b>                    |  |
| Tbg. Size <b>2.375</b>                                                                                                 |  | Wt. <b>4.7</b>  |                                | d <b>1.991</b> |                          | Set At <b>7155</b>        |                                         | Perforations: From <b>7154</b> To             |                                    | Unit Sec. Twp. Rge. <b>A 9 26 N 6W</b> |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple <b>Single Gas</b>                                              |  |                 |                                |                |                          | Packer Set At <b>None</b> |                                         | County <b>Rio Arriba</b>                      |                                    |                                        |  |
| Producing Thru <b>Tubing</b>                                                                                           |  |                 | Reservoir Temp. °F <b>185°</b> |                | Mean Annual Temp. °F     |                           | Baro. Press. - P <sub>a</sub> <b>12</b> |                                               | State <b>New Mexico</b>            |                                        |  |
| L                                                                                                                      |  | H               |                                | Gg             |                          | % CO <sub>2</sub>         |                                         | % N <sub>2</sub>                              |                                    | % H <sub>2</sub> S                     |  |
|                                                                                                                        |  |                 |                                |                |                          |                           |                                         | Prover                                        |                                    | Meter Run                              |  |
|                                                                                                                        |  |                 |                                |                |                          |                           |                                         |                                               |                                    | Taps <b>Pipe</b>                       |  |

  

| 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. |                  |
| SI        | <b>7 days</b>    |   |              |                 |                      |             | <b>2285</b>     |             | <b>2288</b>     |                  |
| 1.        |                  |   | <b>3/4"</b>  |                 |                      |             | <b>335</b>      |             | <b>1148</b>     |                  |
| 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                         | <b>14.1605</b>        |                  | <b>347</b>              | <b>1.000</b>          | <b>1.000</b>      | <b>1.039</b>               | <b>5105</b>          |
| 2                         |                       |                  |                         |                       |                   |                            |                      |
| 3                         |                       |                  |                         |                       |                   |                            |                      |
| 4                         |                       |                  |                         |                       |                   |                            |                      |
| 5                         |                       |                  |                         |                       |                   |                            |                      |

  

| NO. | P <sub>t</sub> | Temp. °R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio | A.P.I. Gravity of Liquid Hydrocarbons | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure | Critical Temperature |
|-----|----------------|----------|----------------|---|------------------------------|---------------------------------------|--------------------------------|--------------------------------|-------------------|----------------------|
| 1   |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 2   |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 3   |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 4   |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 5   |                |          |                |   |                              |                                       |                                |                                |                   |                      |

  

| 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> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ |
|-----|-----------------------------|----------------|-----------------------------|-----------------------------------------------------------|-------------------------------------|------------------------------------------------------|
| 1   |                             | <b>1160</b>    | <b>1,345,600</b>            | <b>3,944,400</b>                                          | <b>1.34</b>                         | <b>1.2454</b>                                        |
| 2   |                             |                |                             |                                                           |                                     |                                                      |
| 3   |                             |                |                             |                                                           |                                     |                                                      |
| 4   |                             |                |                             |                                                           |                                     |                                                      |
| 5   |                             |                |                             |                                                           |                                     |                                                      |

  

|                                              |  |               |  |                         |  |                    |  |
|----------------------------------------------|--|---------------|--|-------------------------|--|--------------------|--|
| Absolute Open Flow <b>6358</b> Mcfd @ 15.025 |  |               |  | Angle of Slope $\theta$ |  | Slope, n <b>75</b> |  |
| Remarks:                                     |  |               |  |                         |  |                    |  |
| Approved By Commission:                      |  | Conducted By: |  | Calculated By:          |  | Checked By:        |  |