

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>11-15-74</b>                 |  |
| Company<br><b>Caulkins Oil Company</b>                                                                                    |  |                                |  | Connection                                   |  |
| Pool<br><b>South Blanco</b>                                                                                               |  |                                |  | Formation<br><b>Pictured Cliffs</b>          |  |
| Completion Date<br><b>11-7-74</b>                                                                                         |  | Total Depth<br><b>3675'</b>    |  | Plug Back TD<br><b>3675'</b>                 |  |
| Csg. Size<br><b>4 1/2"</b>                                                                                                |  | Wt.<br><b>12.6#</b>            |  | Elevation<br><b>6522 Gr.</b>                 |  |
| Perforations:<br>From <b>2670</b> To <b>2690</b>                                                                          |  | Well No.<br><b>382</b>         |  | Farm or Lease Name<br><b>Breech</b>          |  |
| Tbg. Size<br><b>1"</b>                                                                                                    |  | Wt.<br><b>1.7#</b>             |  | Perforations:<br>From <b>None</b> To <b></b> |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br><b>G.G. Multiple</b>                                           |  | Packer Set At<br><b>3454</b>   |  | Unit Sec. Twp. Rgs.<br><b>N 24 26N 7W</b>    |  |
| Producing Thru<br><b>Tubing</b>                                                                                           |  | Reservoir Temp. °F<br><b>8</b> |  | Mean Annual Temp. °F<br><b></b>              |  |
| Baro. Press. - P <sub>a</sub><br><b></b>                                                                                  |  | State<br><b>New Mexico</b>     |  | County<br><b>Rio Arriba</b>                  |  |
| L                                                                                                                         |  | H                              |  | Gg                                           |  |
| % CO <sub>2</sub>                                                                                                         |  | % N <sub>2</sub>               |  | % H <sub>2</sub> S                           |  |
| Prover                                                                                                                    |  | Meter Run                      |  | Taps                                         |  |
| Pipe                                                                                                                      |  |                                |  |                                              |  |

  

| 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        | <b>8 Days</b>    |   |              |                 |                      |             | <b>765</b>      |             | <b>765</b>      |                  |               |
| 1.        |                  |   |              |                 |                      |             | <b>71</b>       |             | <b>641</b>      |                  | <b>3 Hrs.</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 F <sub>g</sub> | Super. Complet. Factor, F <sub>sp</sub> | Rate of Flow Q, Mhd |
| 1                         | <b>14.1605</b>        |                  | <b>83</b>               | <b>1.000</b>          | <b>1.000</b>                  | <b>1.000</b>                            | <b>1175</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   |                             | <b>653</b>     | <b>426,409</b>              | <b>177,320</b>                                            |
| 2   |                             |                |                             |                                                           |
| 3   |                             |                |                             |                                                           |
| 4   |                             |                |                             |                                                           |
| 5   |                             |                |                             |                                                           |

  

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{3.40}$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{3324}$

(2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{2.8287}$

  

|                                |              |                          |                    |
|--------------------------------|--------------|--------------------------|--------------------|
| Absolute Open Flow <b>3324</b> | Mhd @ 15.025 | Angle of Slope <b>85</b> | Slope, n <b>85</b> |
|--------------------------------|--------------|--------------------------|--------------------|

  

Remarks:

  

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