

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>Otero Chacra</b>                                                                                               |                     |                                |                       |                                                  |                    | Formation<br><b>Chacra</b>    |                   |                                     |                   |
| Completion Date<br><b>11-7-74</b>                                                                                         |                     | Total Depth<br><b>3675'</b>    |                       | Plug Back TD<br><b>3675'</b>                     |                    | Elevation<br><b>6522 Gr.</b>  |                   | Farm or Lease Name<br><b>Breech</b> |                   |
| Log. Size<br><b>4 1/2"</b>                                                                                                | Wt.<br><b>12.6#</b> | d<br><b>3.833</b>              | Set At<br><b>3675</b> | Perforations:<br>From <b>3585</b> To <b>3637</b> |                    | Well elev.<br><b>382</b>      |                   |                                     |                   |
| Log. Size<br><b>1 1/4"</b>                                                                                                | Wt.<br><b>2.3#</b>  | d<br><b>1.380</b>              | Set At<br><b>3454</b> | Perforations:<br>From <b>None</b> To             |                    | Unit<br><b>N</b>              | Sec.<br><b>24</b> | Twp.<br><b>26N</b>                  | Rge.<br><b>7W</b> |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br><b>G.G. Multiple</b>                                           |                     |                                |                       |                                                  |                    | Packer Set At<br><b>3454</b>  |                   | County<br><b>Rio Aribba</b>         |                   |
| Producing Thru<br><b>Tubing</b>                                                                                           |                     | Reservoir Temp. °F<br><b>@</b> |                       | Mean Annual Temp. °F                             |                    | Baro. Press. - P <sub>a</sub> |                   | 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 | Prover                        | Meter Run         | Taps<br><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. |                  | Temp. °F      |
| SI        | <b>8 Days</b>    |   |              |                 |                      |             | <b>990</b>      |             | <b>PKR</b>      |                  |               |
| 1.        |                  |   |              |                 |                      |             | <b>67</b>       |             | <b>PKR</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 Fg | Super Comp. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1                         | <b>14.1605</b>        |                  | <b>79</b>               | <b>1.000</b>         | <b>1.000</b>      | <b>1.000</b>            | <b>1118</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.  |                |          |                |   |                              |                                       |                                |                                |                   |                      |

  

|                           |                                            |                |
|---------------------------|--------------------------------------------|----------------|
| P <sub>c</sub> <b>992</b> | P <sub>c</sub> <sup>2</sup> <b>984,064</b> |                |
| NO                        | P <sub>t</sub> <sup>2</sup>                | P <sub>w</sub> |
| 1                         | <b>6,241</b>                               | <b>348</b>     |
| 2                         |                                            |                |
| 3                         |                                            |                |
| 4                         |                                            |                |
| 5                         |                                            |                |

  

|                                                                           |  |                                                                         |  |
|---------------------------------------------------------------------------|--|-------------------------------------------------------------------------|--|
| $(1) \frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.14}$                      |  | $(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.1032}$ |  |
| $AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1233}$ |  |                                                                         |  |

  

|                                |                |                          |          |
|--------------------------------|----------------|--------------------------|----------|
| Absolute Open Flow <b>1233</b> | Mcf/d @ 15.025 | Angle of Slope <b>75</b> | Slope, n |
|--------------------------------|----------------|--------------------------|----------|

  

Remarks:

  

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