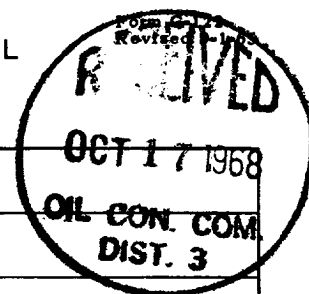


**NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**



|                                                                                                                           |                   |                                           |                       |                                                  |                    |
|---------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------|-----------------------|--------------------------------------------------|--------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                   |                                           |                       | Test Date<br><b>10-9-68</b>                      |                    |
| Company<br><b>Skelly Oil Company</b>                                                                                      |                   |                                           |                       | Connection<br><b>unconnected</b>                 |                    |
| Pool<br><b>undesigned</b>                                                                                                 |                   |                                           |                       | Formation<br><b>Fruitland</b>                    |                    |
| Completion Date<br><b>9-27-68</b>                                                                                         |                   | Total Depth<br><b>5229 K.B.</b>           |                       | Plug Back TD<br><b>1260 K.B.</b>                 |                    |
| Elevation<br><b>6069 K.B.</b>                                                                                             |                   | Farm or Lease Name<br><b>J.W. Goddard</b> |                       |                                                  |                    |
| Csg. Size<br><b>5.500</b>                                                                                                 | Wt.<br><b>14</b>  | d<br><b>5.012</b>                         | Set At<br><b>5212</b> | Perforations:<br>From <b>1184</b> To <b>1202</b> |                    |
| Tbg. Size<br><b>2.375</b>                                                                                                 | Wt.<br><b>4.7</b> | d<br><b>1.995</b>                         | Set At<br><b>1178</b> | Perforations:<br>From <b>1190 w/6 1/2" plug</b>  |                    |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br><b>single</b>                                                  |                   |                                           |                       | Packer Set At                                    |                    |
| Producing Thru<br><b>Tubing</b>                                                                                           |                   |                                           |                       | Baro. Press. - P <sub>a</sub><br><b>12.2</b>     |                    |
| Reservoir Temp. °F<br><b>86°</b>                                                                                          |                   | Mean Annual Temp. °F                      |                       | State<br><b>New Mexico</b>                       |                    |
| L<br><b>1190</b>                                                                                                          | H<br><b>1190</b>  | G <sub>g</sub><br><b>60</b>               | % CO <sub>2</sub>     | % N <sub>2</sub>                                 | % H <sub>2</sub> S |
| Prover<br><b>2.000</b>                                                                                                    |                   | 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        |                  |   |              |                 |                      |          | <b>350</b>      | <b>60°</b> | <b>350</b>      | <b>60°</b> |                  |
| 1.        | <b>2" x 3/4"</b> |   |              |                 |                      |          | <b>131</b>      |            | <b>169</b>      |            | <b>1 Hr.</b>     |
| 2.        |                  |   |              |                 |                      |          | <b>110</b>      |            | <b>144</b>      |            | <b>2 Hr.</b>     |
| 3.        |                  |   |              |                 |                      |          | <b>98</b>       |            | <b>128</b>      |            | <b>3 Hr.</b>     |
| 4.        |                  |   |              |                 |                      |          |                 |            |                 |            |                  |
| 5.        |                  |   |              |                 |                      |          |                 |            |                 |            |                  |

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                                  |                               |                                         |                      |
|---------------------------|-----------------------|------------------|-------------------------|----------------------------------|-------------------------------|-----------------------------------------|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor F <sub>t</sub> | Gravity Factor F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | <b>11.00</b>          |                  | <b>143.2</b>            | <b>1.0000</b>                    | <b>1.291</b>                  | <b>1.010</b>                            |                      |
| 2                         | <b>11.00</b>          |                  | <b>122.2</b>            | <b>1.0000</b>                    | <b>1.291</b>                  | <b>1.010</b>                            |                      |
| 3                         | <b>11.00</b>          |                  | <b>110.2</b>            | <b>1.0000</b>                    | <b>1.291</b>                  | <b>1.010</b>                            | <b>1580.6</b>        |
| 4.                        |                       |                  |                         |                                  |                               |                                         |                      |
| 5.                        |                       |                  |                         |                                  |                               |                                         |                      |

|     |                |          |                |   |                                                        |
|-----|----------------|----------|----------------|---|--------------------------------------------------------|
| NO. | P <sub>t</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 _____ <b>XXXXXXXXXX</b> |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid _____ <b>XXXXXX</b>     |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.        |
| 5.  |                |          |                |   | Critical Temperature _____ R _____ R                   |

|                             |                                           |                |                             |
|-----------------------------|-------------------------------------------|----------------|-----------------------------|
| P <sub>c</sub> <b>362.2</b> | P <sub>c</sub> <sup>2</sup> <b>131188</b> |                |                             |
| NO.                         | P <sub>t</sub> <sup>2</sup>               | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> |
| 1                           |                                           |                |                             |
| 2                           |                                           |                |                             |
| 3                           | <b>12144</b>                              | <b>140.2</b>   | <b>19656</b>                |
| 4                           |                                           |                |                             |
| 5                           |                                           |                |                             |

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{131188}{131188 - 19656} = 1.1762$$

$$(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1478$$

$$AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1814$$

|                                              |                        |                     |
|----------------------------------------------|------------------------|---------------------|
| Absolute Open Flow <b>1814</b> Mcfd @ 15.025 | Angle of Slope @ _____ | Slope, n <b>.85</b> |
| Remarks: _____                               |                        |                     |

|                         |                                                     |                                    |                                      |
|-------------------------|-----------------------------------------------------|------------------------------------|--------------------------------------|
| Approved By Commission: | Conducted By:<br><b>Hergenzeter &amp; Parkhurst</b> | Calculated By:<br><b>Parkhurst</b> | Checked By:<br><b>Norman Maxwell</b> |
|-------------------------|-----------------------------------------------------|------------------------------------|--------------------------------------|