

**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>6/27/75                |  |
| Company<br>Consolidated Oil & Gas, Inc.                                                                                   |  |                                     |  | Connection                          |  |
| Pool                                                                                                                      |  |                                     |  | Formation<br>Mississippi            |  |
| Completion Date<br>6/20/75                                                                                                |  | Total Depth<br>6910                 |  | Plug Back TD<br>6882                |  |
|                                                                                                                           |  | Elevation<br>5615 KB                |  | Farm or Lease Name<br>Staver-Navajo |  |
| Csg. Size 5-1/2" wt. 14-17                                                                                                |  | 4.892                               |  | Set At 6693                         |  |
| 3-1/2" liner 9.2                                                                                                          |  | 2.992                               |  | 6573-6904                           |  |
| Tbg. Size                                                                                                                 |  | Set At                              |  | Perforations: None                  |  |
| 2-3/8                                                                                                                     |  | 4.7                                 |  | 1.995                               |  |
|                                                                                                                           |  | 6561                                |  | From 6796 To 6816                   |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |  |                                     |  | Packer Set At<br>6561               |  |
| Producing Thru<br>Tubing                                                                                                  |  | Reservoir Temp. °F<br>136 @ 6878    |  | Mean Annual Temp. °F<br>50          |  |
|                                                                                                                           |  | Baro. Press. - P <sub>a</sub><br>12 |  | County<br>San Juan                  |  |
| L<br>6561                                                                                                                 |  | H<br>6561                           |  | G <sub>g</sub><br>.928              |  |
|                                                                                                                           |  | % CO <sub>2</sub><br>0.56           |  | % N <sub>2</sub><br>93.4            |  |
|                                                                                                                           |  | % H <sub>2</sub> S<br>-             |  | Prover<br>Meter Run<br>Taps         |  |

  

| FLOW DATA |                        |   |                 |                    |                         | TUBING DATA |                    | CASING DATA |                    | Duration<br>of<br>Flow |             |
|-----------|------------------------|---|-----------------|--------------------|-------------------------|-------------|--------------------|-------------|--------------------|------------------------|-------------|
| NO.       | Prover<br>Line<br>Size | X | Orifice<br>Size | Press.<br>p.s.i.g. | Diff.<br>h <sub>w</sub> | Temp.<br>°F | Press.<br>p.s.i.g. | Temp.<br>°F | Press.<br>p.s.i.g. |                        | Temp.<br>°F |
| SI        |                        |   |                 |                    |                         |             | 2842               |             | Packer             |                        | 168         |
| 1.        | Positive choke         |   |                 | 273                |                         | 83          | 273                | 83          | "                  |                        | 3           |
| 2.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |
| 3.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |
| 4.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |
| 5.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |

  

| RATE OF FLOW CALCULATIONS |                          |                  |                            |                                        |                                     |                                               |                         |
|---------------------------|--------------------------|------------------|----------------------------|----------------------------------------|-------------------------------------|-----------------------------------------------|-------------------------|
| NO.                       | Coefficient<br>(24 Hour) | $\sqrt{h_w P_m}$ | Pressure<br>P <sub>m</sub> | Flow Temp.<br>Factor<br>F <sub>t</sub> | Gravity<br>Factor<br>F <sub>g</sub> | Super<br>Compress.<br>Factor, F <sub>pv</sub> | Rate of Flow<br>Q, Mcfd |
| 1                         | 11                       |                  | 285                        | .9786                                  | 1.038                               | 1.002                                         | 3191                    |
| 2.                        |                          |                  |                            |                                        |                                     |                                               |                         |
| 3.                        |                          |                  |                            |                                        |                                     |                                               |                         |
| 4.                        |                          |                  |                            |                                        |                                     |                                               |                         |
| 5.                        |                          |                  |                            |                                        |                                     |                                               |                         |

  

| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z    | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.          |  |
|-----|----------------|----------|----------------|------|------------------------------------------------------|--|
| 1.  | .56            | 543      | 2.56           | .997 | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.     |  |
| 2.  |                |          |                |      | Specific Gravity Separator Gas _____ X X X X X X X X |  |
| 3.  |                |          |                |      | Specific Gravity Flowing Fluid _____ X X X X X       |  |
| 4.  |                |          |                |      | Critical Pressure _____ P.S.I.A. 505 P.S.I.A.        |  |
| 5.  |                |          |                |      | Critical Temperature _____ R 212 R                   |  |

  

| NO. | P <sub>c</sub> | P <sub>c</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   | 2854           | 8145.3                      | 671            | 450.2                       | 7695.1                                                    |
| 2   |                |                             |                |                             |                                                           |
| 3   |                |                             |                |                             |                                                           |
| 4   |                |                             |                |                             |                                                           |
| 5   |                |                             |                |                             |                                                           |

  

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0585$$

$$AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3349$$

$$(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0495$$

  

|                    |      |                |                  |                          |
|--------------------|------|----------------|------------------|--------------------------|
| Absolute Open Flow | 3349 | Mcf/d @ 15.025 | Angle of Slope @ | Assumed<br>Slope, n 0.85 |
|--------------------|------|----------------|------------------|--------------------------|

  

Remarks:

  

|                         |                       |                       |             |
|-------------------------|-----------------------|-----------------------|-------------|
| Approved By Commission: | Conducted By:         | Calculated By:        | Checked By: |
|                         | Leo Case, V. M. Moore | Floyd E. Ellison, Jr. |             |