

**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>5/23/80  |                               |                    |                                |            |
| Company<br>Consolidated Oil & Gas Co.                                                                                     |             |                         |                   | Connection<br>E P N G              |                       |                               |                    |                                |            |
| Pool<br>Blanco                                                                                                            |             |                         |                   | Formation<br>Mesa Verde            |                       |                               |                    | Unit                           |            |
| Completion Date<br>4/18/80                                                                                                |             | Total Depth<br>7025     |                   | Plug Back TD<br>7035               |                       | Elevation                     |                    | Farm or Lease Name<br>Arnstein |            |
| Csg. Size<br>5 1/2                                                                                                        | Wt.<br>15.5 | d<br>4.950              | Set At            | Perforations:<br>From 3972 To 4906 |                       | Well No.<br>1-M (MD)          |                    |                                |            |
| Tbg. Size<br>1 1/2                                                                                                        | Wt.<br>2.4  | d<br>1.380              | Set At            | Perforations:<br>From To           |                       | Unit<br>C                     | Sec.<br>18         | Twp.<br>31                     | Rge.<br>12 |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>GG                                                             |             |                         |                   |                                    | Packer Set At<br>6568 |                               | County<br>San Juan |                                |            |
| Producing Thru<br>Casing                                                                                                  |             | Reservoir Temp. °F<br>8 |                   | Mean Annual Temp. °F               |                       | Baro. Press. - P <sub>a</sub> |                    | State<br>New Mexico            |            |
| L                                                                                                                         | H           | G <sub>g</sub>          | % CO <sub>2</sub> | % N <sub>2</sub>                   | % H <sub>2</sub> S    | Prover<br>2"                  | 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        |                  |   |              |                 |                      |                 | 950             |          | 1070            |          | 39 Days          |
| 1.        | 2"               |   | .750         | 90              |                      | 70 <sup>0</sup> |                 |          |                 |          | 3 Hours          |
| 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 Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | 9.453                 |                  | 102                     | .9905                 | 1.240                         | 1.004                                   | 1189                 |
| 2.                        |                       |                  |                         |                       |                               |                                         |                      |
| 3.                        |                       |                  |                         |                       |                               |                                         |                      |
| 4.                        |                       |                  |                         |                       |                               |                                         |                      |
| 5.                        |                       |                  |                         |                       |                               |                                         |                      |

  

| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.        |
|-----|----------------|----------|----------------|---|----------------------------------------------------|
| 1.  |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.   |
| 2.  |                |          |                |   | Specific Gravity Separator Gas .650    XXXXXXXXXX  |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid XXXXX               |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A.    _____ P.S.I.A. |
| 5.  |                |          |                |   | Critical Temperature _____ R    _____ R            |

  

| NO. | P <sub>c</sub> 1082 | P <sub>c</sub> <sup>2</sup> 1170724 | P <sub>w</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> - P <sub>c</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_w^2 - P_c^2} = 2.7374$               | (2) $\left[ \frac{P_c^2}{P_w^2 - P_c^2} \right]^n = 2.1281$ |
|-----|---------------------|-------------------------------------|-----------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|
| 1   | 10904               | 862                                 | 743044                      | 427680                                                    | $AOF = Q \left[ \frac{P_c^2}{P_w^2 - P_c^2} \right]^n =$ |                                                             |
| 2   |                     |                                     |                             |                                                           |                                                          |                                                             |
| 3   |                     |                                     |                             |                                                           |                                                          |                                                             |
| 4   |                     |                                     |                             |                                                           |                                                          |                                                             |
| 5   |                     |                                     |                             |                                                           |                                                          |                                                             |

  

|                              |  |                                   |  |                                    |  |                           |  |
|------------------------------|--|-----------------------------------|--|------------------------------------|--|---------------------------|--|
| Absolute Open Flow 2530      |  | Mcf/d @ 15.025                    |  | Angle of Slope @                   |  | Slope, n .75              |  |
| Remarks: Flowed Thru Casing. |  |                                   |  |                                    |  |                           |  |
|                              |  |                                   |  |                                    |  |                           |  |
| Approved By Commission:      |  | Conducted By: <i>Lonny Wilson</i> |  | Calculated By: <i>Lonny Wilson</i> |  | Checked By: <i>Wilson</i> |  |

