

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

Form C-122  
 Revised 9-1-65

|                                                                                                                         |           |                                 |                         |                                   |                       |
|-------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------|-------------------------|-----------------------------------|-----------------------|
| Type Test: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |           |                                 |                         | Test Date: 5-24-85                |                       |
| Company: Amoco Production Company                                                                                       |           |                                 |                         | Connection:                       |                       |
| Pool: Bravo Dome Carbon Dioxide Gas Unit 640-acre area                                                                  |           |                                 |                         | Formation: Tubb                   |                       |
| Completion Date: 9-8-84                                                                                                 |           | Total Depth: 2914               |                         | Plug Back TD: 2800'               |                       |
| Elevation: 4752'                                                                                                        |           | Farm or Lease Name:             |                         |                                   |                       |
| Csg. Size: 7"                                                                                                           | Wt.: 20#  | d:                              | Set At: 2921            | Perforations: From 2506' To 2546' |                       |
| Tbg. Size: 3-1/2"                                                                                                       | Wt.: 9.3# | d:                              | Set At: 2411            | Perforations: From To             |                       |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single                                                         |           |                                 |                         | Packer Set At: 2380               |                       |
| Producing Thru Tubing                                                                                                   |           | Reservoir Temp. °F: 94° @ 2526' |                         | Mean Annual Temp. °F: 50          |                       |
| Baro. Press. - P <sub>a</sub> : 12.2                                                                                    |           | State: New Mexico               |                         |                                   |                       |
| L: 2526'                                                                                                                | H: 2526'  | G <sub>g</sub> : 1.5229         | % CO <sub>2</sub> : 100 | % N <sub>2</sub> : 0              | % H <sub>2</sub> S: 0 |
| Prover:                                                                                                                 |           | Meter Run: 4.0"                 |                         | Taps: Flange                      |                       |

| 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. |                  |
| SI        |                  |   |              |                 |                      |             | 361             |             |                 |                  |
| 1.        | 4.026 x 1.625    |   |              | 230             | 37                   | 58          | 242.2           | 50          |                 |                  |
| 2.        | 4.026 x 1.625    |   |              | 238             | 32                   | 59          | 250.2           | 50          |                 |                  |
| 3.        | 4.026 x 1.625    |   |              | 261             | 21                   | 59          | 273.2           | 50          |                 |                  |
| 4.        | 4.026 x 1.625    |   |              | 283             | 13                   | 60          | 295.2           | 50          |                 |                  |
| 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                         |                       |                  |                         |                       |                               |                                         | 1021                 |
| 2                         |                       |                  |                         |                       |                               |                                         | 971                  |
| 3                         |                       |                  |                         |                       |                               |                                         | 835                  |
| 4                         |                       |                  |                         |                       |                               |                                         | 691                  |
| 5                         |                       |                  |                         |                       |                               |                                         |                      |

|     |                |          |                |   |                                       |           |
|-----|----------------|----------|----------------|---|---------------------------------------|-----------|
| NO. | P <sub>t</sub> | Temp. °R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio          | Mcf/bbl.  |
| 1   |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons | 0         |
| 2   |                |          |                |   | Specific Gravity Separator Gas        | 1.529     |
| 3   |                |          |                |   | Specific Gravity Flowing Fluid        | X X X X X |
| 4   |                |          |                |   | Critical Pressure                     | 1072      |
| 5   |                |          |                |   | Critical Temperature                  | 547       |

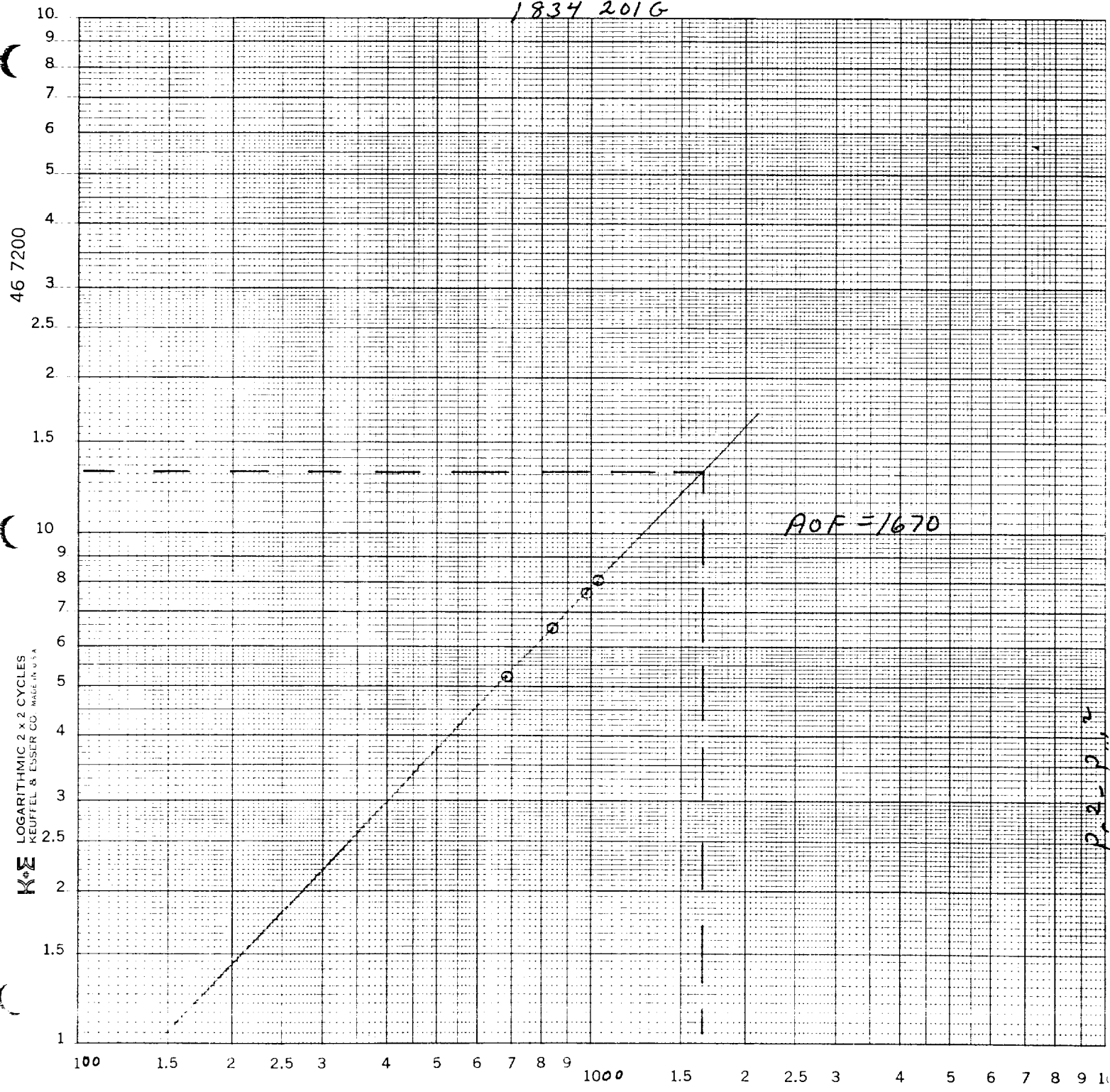
  

|                        |                                       |                                          |                                                           |
|------------------------|---------------------------------------|------------------------------------------|-----------------------------------------------------------|
| P <sub>c</sub> : 373.2 | P <sub>c</sub> <sup>2</sup> : 139.279 | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.73$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.64$ |
| NO.                    | P <sub>t</sub> <sup>2</sup>           | P <sub>w</sub>                           | P <sub>w</sub> <sup>2</sup>                               |
| 1                      | 242.2                                 |                                          | 80.617                                                    |
| 2                      | 250.2                                 |                                          | 76.678                                                    |
| 3                      | 273.2                                 |                                          | 64.640                                                    |
| 4                      | 295.2                                 |                                          | 52.135                                                    |
| 5                      |                                       |                                          |                                                           |

|                          |               |                             |                       |
|--------------------------|---------------|-----------------------------|-----------------------|
| Absolute Open Flow: 1670 |               | Mcf/d @ 15.025              | Angle of Slope θ: .90 |
| Remarks:                 |               |                             |                       |
|                          |               |                             |                       |
| Approved by Commission:  | Conducted By: | Calculated By: D. D. Kimble | Checked By:           |

1834 2016



$Q = MCF$

2.2.2.2