

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL Revised 9-1-63

Form C-122

|                                                                                                                           |                  |                          |                |                                           |           |                             |                     |                                           |  |
|---------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------|----------------|-------------------------------------------|-----------|-----------------------------|---------------------|-------------------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                  |                          |                |                                           |           | Test Date<br>8/27/95        |                     | API Number<br>30-059-20100                |  |
| Company<br><b>Amoco Corporation</b>                                                                                       |                  |                          |                | Connection<br><b>Bravo Dome CO2 Plant</b> |           |                             |                     | RTU Number<br>5079                        |  |
| Pool<br><b>N/A</b>                                                                                                        |                  |                          |                | Formation<br><b>Tubb</b>                  |           |                             |                     | Unit<br><b>BDCDGU</b>                     |  |
| Completion Date<br>3/22/81                                                                                                |                  | Total Depth<br>2780      |                | Plug Back Depth<br>2552                   |           | Elevation<br>4775 GL        |                     | Farm or Lease Name<br><b>Bravo Dome</b>   |  |
| Csg. Size<br>5.5                                                                                                          | Wt.<br>14        | Csg. Inside Dia<br>5.012 | Set At<br>2773 | Perforations<br>From 2205 To 2337         |           |                             |                     | Well Number<br>2234-251-J                 |  |
| Tbg. Size<br>3.5                                                                                                          | Wt.<br>FG        | Tbg. Inside Dia<br>2.95  | Set At<br>2181 | Perforations<br>From n/a To n/a           |           |                             |                     | Unit Sec. Twp. Rge.<br>sec 25, T-22, R-34 |  |
| Type well -Single-Bradenhead-G.G. or G.O. Multiple<br><b>Single</b>                                                       |                  |                          |                |                                           |           | Packer Set At<br>2173       |                     | County<br><b>Union</b>                    |  |
| Producing Through<br><b>Tubing</b>                                                                                        |                  | Reservoir Temp. F<br>95  |                | Mean Annual Temp. F<br>60                 |           | Baro. Press. - PSIA<br>12.2 |                     | State<br><b>New Mexico</b>                |  |
| Flow Channel L<br>2552                                                                                                    | Depth, H<br>2552 | Gg<br>1.5192             | %CO2<br>100    | %N2<br>0                                  | %H2S<br>0 | Prover<br><b>ORIFICE</b>    | Meter Run<br>4 inch | Taps<br><b>FLANGE</b>                     |  |

| FLOW DATA |             |   |                     |                    | TUBING DATA |                    | CASING DATA |                    | Duration of Flow |             |
|-----------|-------------|---|---------------------|--------------------|-------------|--------------------|-------------|--------------------|------------------|-------------|
| NO.       | Prover Size | X | Stat. Press<br>psig | Diff. Press.<br>Hw | Temp.<br>°F | Press.<br>p.s.i.g. | Temp.<br>°F | Press.<br>p.s.i.g. |                  | Temp.<br>°F |
| SI        |             |   |                     |                    |             | 325                |             |                    |                  | 24 hour     |
| 1.        |             |   |                     |                    |             | 270                |             |                    |                  | 60 MIN      |
| 2.        |             |   |                     |                    |             | 250                |             |                    |                  | 60 MIN      |
| 3.        |             |   |                     |                    |             | 190                |             |                    |                  | 60 MIN      |
| 4.        |             |   |                     |                    |             | 110                |             |                    |                  | 60 MIN      |
| 5.        |             |   |                     |                    |             | 0                  |             |                    |                  |             |

| RATE OF FLOW CALCULATIONS |                           |                  |                |                          |                       |                                      |                      |         |  |
|---------------------------|---------------------------|------------------|----------------|--------------------------|-----------------------|--------------------------------------|----------------------|---------|--|
| NO.                       | Coefficient<br>(24 Hours) | _____<br>hw * Pm | Pressure<br>Pm | Flow Temp.<br>Factor, Ft | Gravity<br>Factor, Fg | Super Compressibility<br>Factor, Fpv | Rate of Flow Q, Mcfd |         |  |
|                           |                           |                  |                |                          |                       |                                      | Values               | Log(10) |  |
| SI                        |                           |                  |                |                          |                       |                                      | 0                    |         |  |
| 1.                        |                           |                  |                |                          |                       |                                      | 1800                 | 3.2553  |  |
| 2.                        |                           |                  |                |                          |                       |                                      | 1933                 | 3.2862  |  |
| 3.                        |                           |                  |                |                          |                       |                                      | 2067                 | 3.3153  |  |
| 4.                        |                           |                  |                |                          |                       |                                      | 2400                 | 3.3802  |  |
| 5.                        |                           |                  |                |                          |                       |                                      | 2485                 | AOF     |  |

|     |    |          |    |   |                                        |               |
|-----|----|----------|----|---|----------------------------------------|---------------|
| NO. | Pr | Temp. °R | Tr | Z | Gas Liquid Hydrocarbon Ratio           | N/A Mcf/bbl   |
| 1.  |    |          |    |   | A. P. I. Gravity of Liquid Hydrocarbon | N/A Deg.      |
| 2.  |    |          |    |   | Specific Gravity Separator Gas         | N/A           |
| 3.  |    |          |    |   | Specific Gravity Flowing Fluid         | 1.5192        |
| 4.  |    |          |    |   | Critical Pressure                      | 1072 P.S.I.A. |
| 5.  |    |          |    |   | Critical Temperature                   | 548 R         |

|            |                |                    |                    |
|------------|----------------|--------------------|--------------------|
| Pc = 337.2 | Pc^2 = 113,704 | (1) 4th test point | (2) 4th test point |
| NO.        | P t^2          | Pw                 | P w^2              |
| SI         |                | 337.2              | 113,704            |
| 1.         |                | 282.2              | 79,637             |
| 2.         |                | 262.2              | 68,749             |
| 3.         |                | 202.2              | 40,885             |
| 4.         |                | 122.2              | 14,933             |
| 5.         |                |                    |                    |

|              |              |              |              |
|--------------|--------------|--------------|--------------|
| Pc^2 - P w^2 | Pc^2 - P w^2 | Pc^2 - P w^2 | Pc^2 - P w^2 |
| 0            | Log(10)      | 1.151        | 1.036        |
| 34,067       | 4.5323       |              |              |
| 44,955       | 4.6528       |              |              |
| 72,819       | 4.8622       |              |              |
| 98,771       | 4.9946       |              |              |

4th test point

Q | P^2 | ^n = 2,485 = AOF

| Pc^2 - Pw^2 |

|                    |       |               |                |       |            |                   |
|--------------------|-------|---------------|----------------|-------|------------|-------------------|
| Absolute Open Flow | 2,485 | Mcfd @ 15.025 | Angle of Slope | 76.04 | Slope, n = | 0.249 (Cotangent) |
|--------------------|-------|---------------|----------------|-------|------------|-------------------|

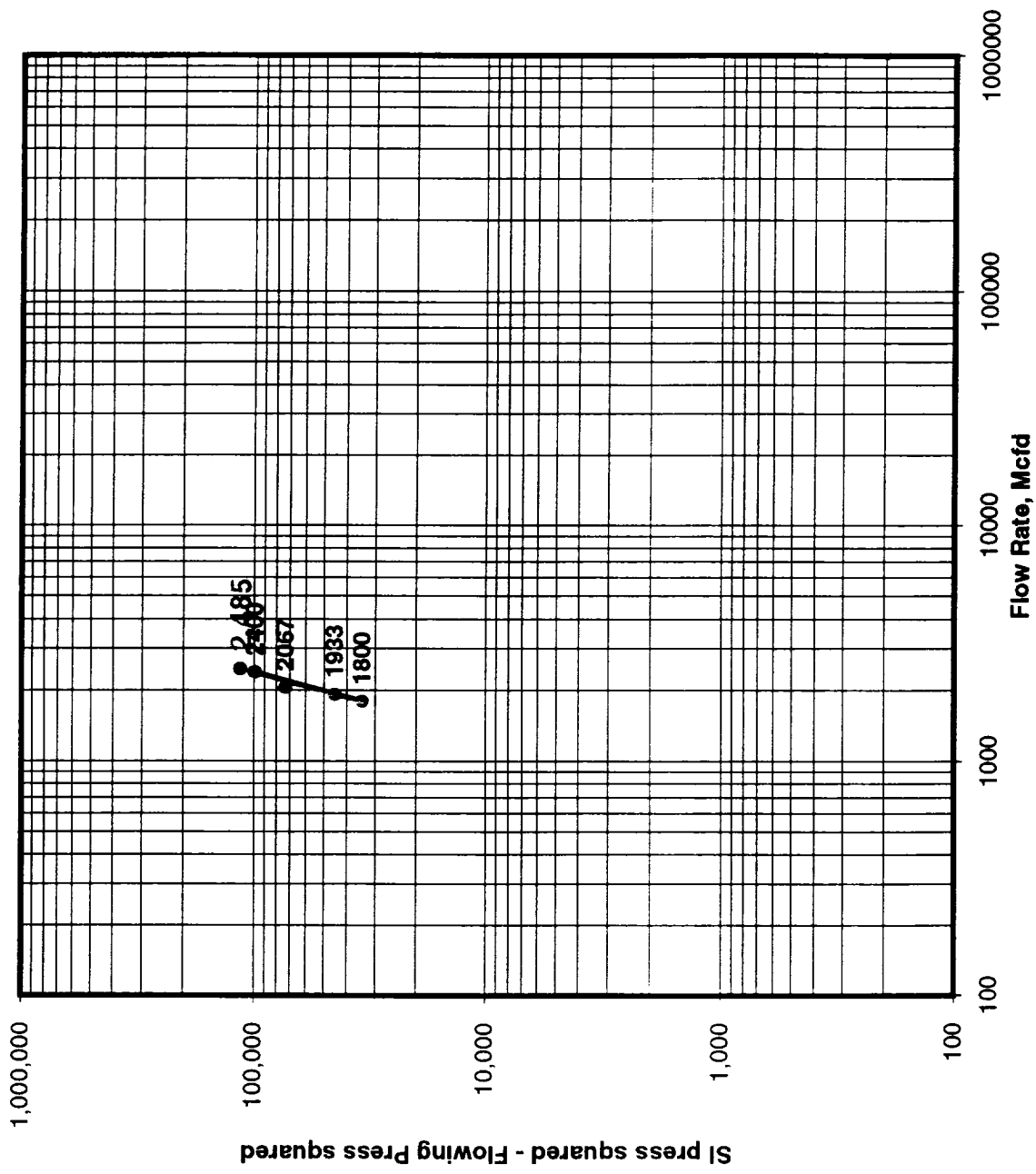
Remarks:

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|                         |                                       |                                              |                                                |
|-------------------------|---------------------------------------|----------------------------------------------|------------------------------------------------|
| Approved By Commission: | Conducted By:<br><b>Bill Prichard</b> | Calculated By:<br><b>Automation Software</b> | Checked By:<br><b>Garv Ford, Bill Prichard</b> |
|-------------------------|---------------------------------------|----------------------------------------------|------------------------------------------------|

*Handwritten signature: Gary Ford*

GAS WELL BACK PRESSURE TEST - ABSOLUTE OPEN FLOW



GAS WELL BACK PRESSURE TEST INFLOW PERFORMANCE

