

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><b>6/26/96</b>                     |                 | API Number<br><b>30-059-20325</b>              |                            |
| Company<br><b>Amoco Corporation</b>                                                                                       |                  |                                |                       | Connection<br><b>Bravo Dome CO2 Plant</b>       |                 | RTU Number<br><b>5088</b>                      |                            |
| Pool<br><b>N/A</b>                                                                                                        |                  |                                |                       | Formation<br><b>Tubb</b>                        |                 | Unit<br><b>BDCDGU</b>                          |                            |
| Completion Date<br><b>9/24/95</b>                                                                                         |                  | Total Depth<br><b>2354</b>     |                       | Plug Back Depth<br><b>2343</b>                  |                 | Elevation<br><b>4793</b>                       |                            |
| Csg. Size<br><b>5.5</b>                                                                                                   | Wt.<br><b>fg</b> | Csg. Inside Dia<br><b>4.75</b> | Set At<br><b>2354</b> | Perforations<br>From <b>2228</b> To <b>2267</b> |                 | Well Number<br><b>2234-151f</b>                |                            |
| Tbg. Size<br><b>na</b>                                                                                                    | Wt.<br><b>x</b>  | Tbg. Inside Dia<br><b>x</b>    | Set At.<br><b>x</b>   | Perforations<br>From <b>n/a</b> To <b>n/a</b>   |                 | Unit Sec. Twp. Rge.<br><b>sec 15,T-22,R-34</b> |                            |
| Type well - Single-Bradenhead-G.G. or G.O. Multiple<br><b>Single</b>                                                      |                  |                                |                       | Packer Set At<br><b>na</b>                      |                 | County<br><b>Union</b>                         |                            |
| Producing Through<br><b>csg</b>                                                                                           |                  | Reservoir Temp, F<br><b>95</b> |                       | Mean Annual Temp, F<br><b>60</b>                |                 | Baro. Press. - PSIA<br><b>12.2</b>             |                            |
| Flow Channel, L<br><b>2343</b>                                                                                            |                  | Depth, H<br><b>2343</b>        | Gg<br><b>1.5192</b>   | %CO2<br><b>100</b>                              | %N2<br><b>0</b> | %H2S<br><b>0</b>                               | Prover<br><b>ORIFICE</b>   |
|                                                                                                                           |                  |                                |                       |                                                 |                 |                                                | Meter Run<br><b>4 inch</b> |
|                                                                                                                           |                  |                                |                       |                                                 |                 |                                                | Taps<br><b>FLANGE</b>      |

| FLOW DATA |             |                    |                    |             | TUBING DATA        |             | CASING DATA        |             | Duration of Flow |
|-----------|-------------|--------------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|------------------|
| NO.       | Prover Size | Stat. Pres<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        |             |                    |                    |             | <b>232</b>         |             |                    |             | <b>24 hour</b>   |
| 1.        |             |                    |                    |             | <b>213</b>         |             |                    |             | <b>60 MIN</b>    |
| 2.        |             |                    |                    |             | <b>197</b>         |             |                    |             | <b>60 MIN</b>    |
| 3.        |             |                    |                    |             | <b>176</b>         |             |                    |             | <b>60 MIN</b>    |
| 4.        |             |                    |                    |             | <b>160</b>         |             |                    |             | <b>60 MIN</b>    |
| 5.        |             |                    |                    |             | <b>0</b>           |             |                    |             |                  |

| RATE OF FLOW CALCULATIONS |                           |         |                |                          |                       |                                      |                      |               |
|---------------------------|---------------------------|---------|----------------|--------------------------|-----------------------|--------------------------------------|----------------------|---------------|
| NO.                       | Coefficient<br>(24 Hours) | 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                        |                           |         |                |                          |                       |                                      | <b>0</b>             |               |
| 1.                        |                           |         |                |                          |                       |                                      | <b>2234</b>          | <b>3.3491</b> |
| 2.                        |                           |         |                |                          |                       |                                      | <b>2983</b>          | <b>3.4747</b> |
| 3.                        |                           |         |                |                          |                       |                                      | <b>4237</b>          | <b>3.6271</b> |
| 4.                        |                           |         |                |                          |                       |                                      | <b>4620</b>          | <b>3.6646</b> |
| 5.                        |                           |         |                |                          |                       |                                      | <b>7085</b>          | <b>AOF</b>    |

|     |     |          |     |   |                                        |                      |
|-----|-----|----------|-----|---|----------------------------------------|----------------------|
| NO. | P r | Temp, °R | T r | 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         | <b>1.5192</b>        |
| 4.  |     |          |     |   | Critical Pressure                      | <b>1072 P.S.I.A.</b> |
| 5.  |     |          |     |   | Critical Temperature                   | <b>548 R</b>         |

|     |              |              |               |
|-----|--------------|--------------|---------------|
| Pc  | <b>244.2</b> | Pc^          | <b>59,634</b> |
| NO. | P t^2        | Pw           | Pw^2          |
| SI  |              | <b>244.2</b> | <b>59,634</b> |
| 1.  |              | <b>225.2</b> | <b>50,715</b> |
| 2.  |              | <b>209.2</b> | <b>43,765</b> |
| 3.  |              | <b>188.2</b> | <b>35,419</b> |
| 4.  |              | <b>172.2</b> | <b>29,653</b> |
| 5.  |              |              |               |

|                    |              |                    |              |
|--------------------|--------------|--------------------|--------------|
| (1) 4th test point |              | (2) 4th test point |              |
| Pc^2               | <b>1.989</b> | Pc^2 ^n            | <b>1.534</b> |
| Pc^2 - Pw^2        |              | Pc^2 - Pw^2        |              |
| 4th test point     |              | 4th test point     |              |
| Q   P^2 ^n         | <b>7,085</b> | =                  | <b>AOF</b>   |
| Pc^2 - Pw^2        |              |                    |              |

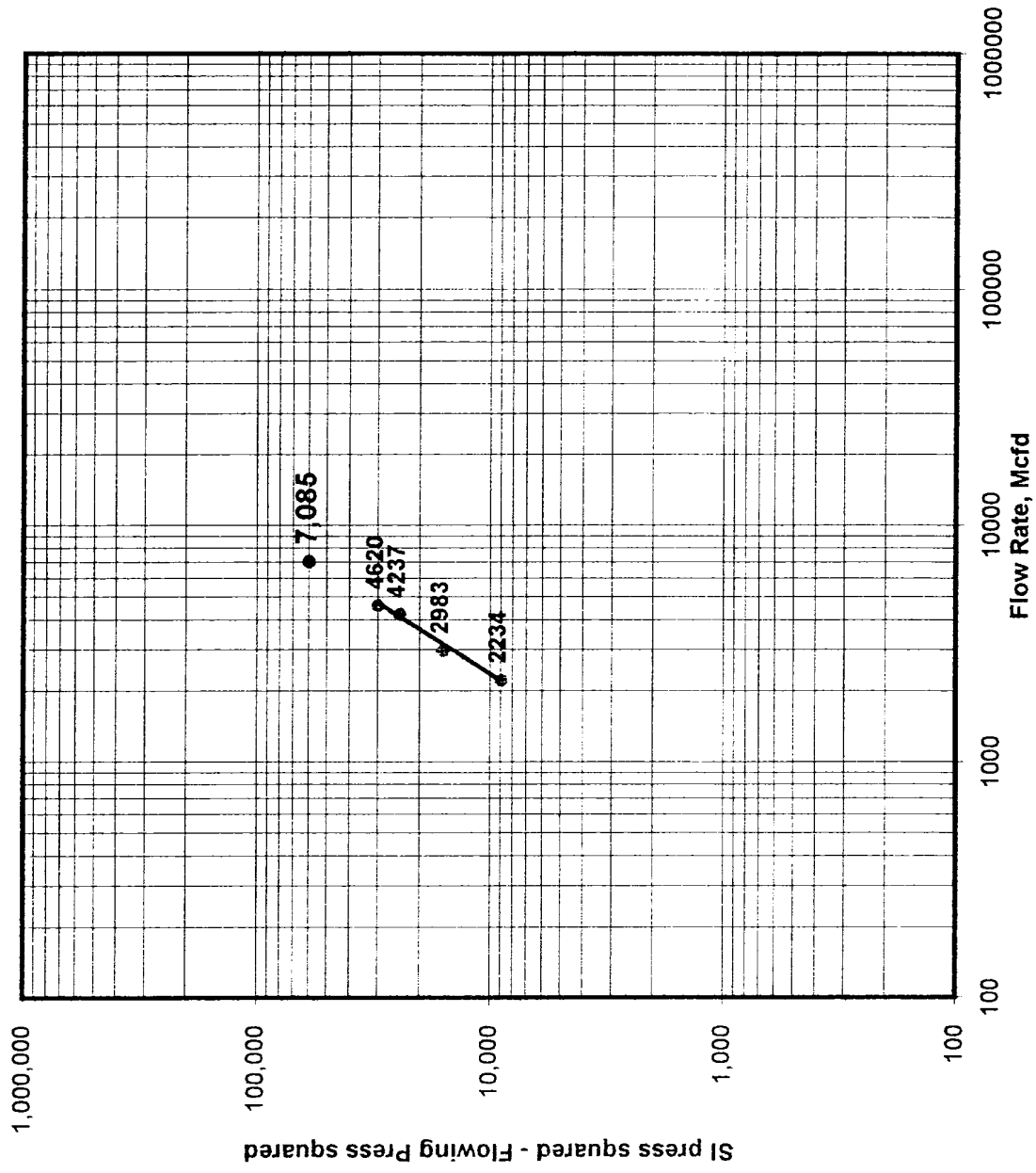
  

|                    |              |               |                |              |            |                          |
|--------------------|--------------|---------------|----------------|--------------|------------|--------------------------|
| Absolute Open Flow | <b>7,085</b> | Mcfd @ 15.025 | Angle of Slope | <b>58.13</b> | Slope, n = | <b>0.622</b> (Cotangent) |
| Remarks:           |              |               |                |              |            |                          |

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

GAS WELL BACK PRESSURE TEST - ABSOLUTE OPEN FLOW



GAS WELL BACK PRESSURE TEST INFLOW PERFORMANCE

