

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>9/5/96</b>                         |  | API Number<br><b>30-059-20360</b>  |  |
| Company<br><b>Amoco Corporation</b>                                                                                       |  |                                |  | Connection<br><b>Bravo Dome CO2 Plant</b>          |  | RTU Number<br><b>5106</b>          |  |
| Pool<br><b>N/A</b>                                                                                                        |  |                                |  | Formation<br><b>Tubb</b>                           |  | Unit<br><b>BDCDGU</b>              |  |
| Completion Date<br><b>8/13/96</b>                                                                                         |  | Total Depth<br><b>2256'</b>    |  | Plug Back Depth<br><b>2246'</b>                    |  | Elevation<br><b>4714.70'</b>       |  |
| Csg. Size<br><b>5 1/2</b>                                                                                                 |  | Wt.<br><b>15.5#</b>            |  | Csg. Inside Dia<br><b>4.75</b>                     |  | Set At<br><b>2256'</b>             |  |
| Perforations<br>From <b>2100'</b> To <b>2201'</b>                                                                         |  |                                |  | Well Number<br><b>2134-133M</b>                    |  |                                    |  |
| Tbg. Size<br><b>X</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 13, T-21N, R-34E</b> |  |                                    |  |
| Type well - Single-Bradenhead-G.G. or G.O. Multiple<br><b>Single</b>                                                      |  |                                |  | Packer Set At<br><b>n/a</b>                        |  | County<br><b>UNION</b>             |  |
| Producing Through<br><b>X</b>                                                                                             |  | Reservoir Temp. F<br><b>95</b> |  | Mean Annual Temp. F<br><b>60</b>                   |  | Baro. Press. - PSIA<br><b>12.2</b> |  |
| State<br><b>New Mexico</b>                                                                                                |  |                                |  |                                                    |  |                                    |  |
| Flow Channel, L<br><b>2246'</b>                                                                                           |  | Depth, H<br><b>2246'</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 psig | Diff. Press. Hw | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F |                  |
| SI        |             |                 |                 |          | <b>288</b>      |          |                 |          | <b>24 hour</b>   |
| 1.        |             |                 |                 |          | <b>251</b>      |          |                 |          | <b>60 MIN</b>    |
| 2.        |             |                 |                 |          | <b>225</b>      |          |                 |          | <b>60 MIN</b>    |
| 3.        |             |                 |                 |          | <b>207</b>      |          |                 |          | <b>60 MIN</b>    |
| 4.        |             |                 |                 |          | <b>172</b>      |          |                 |          | <b>60 MIN</b>    |
| 5.        |             |                 |                 |          | <b>0</b>        |          |                 |          |                  |

| RATE OF FLOW CALCULATIONS |                        |           |             |                       |                    |                                    |                      |               |  |
|---------------------------|------------------------|-----------|-------------|-----------------------|--------------------|------------------------------------|----------------------|---------------|--|
| NO.                       | Coefficient (24 Hours) | / hw * Pm | Pressure Pm | Flow Temp. Factor, Ft | Gravity Factor, Fg | Super. Compressibility Factor, Fpv | Rate of Flow Q, Mcfd |               |  |
|                           |                        |           |             |                       |                    |                                    | Values               | Log(10)       |  |
| SI                        |                        |           |             |                       |                    |                                    | <b>0</b>             |               |  |
| 1.                        |                        |           |             |                       |                    |                                    | <b>2395</b>          | <b>3.3793</b> |  |
| 2.                        |                        |           |             |                       |                    |                                    | <b>3717</b>          | <b>3.5702</b> |  |
| 3.                        |                        |           |             |                       |                    |                                    | <b>4452</b>          | <b>3.6486</b> |  |
| 4.                        |                        |           |             |                       |                    |                                    | <b>5190</b>          | <b>3.7152</b> |  |
| 5.                        |                        |           |             |                       |                    |                                    | <b>7554</b>          | <b>AOF</b>    |  |

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

|     |              |              |               |               |                    |                    |
|-----|--------------|--------------|---------------|---------------|--------------------|--------------------|
| Pc  | <b>300.2</b> | Pc*          | <b>90,120</b> |               | (1) 4th test point | (2) 4th test point |
| NO. | P t^2        | Pw           | P w^2         | Pc^2 - P w^2  | Pc^2               | Pc^2 - P w^2       |
| SI  |              | <b>300.2</b> | <b>90,120</b> | <b>0</b>      | <b>1.604</b>       | <b>1.456</b>       |
| 1.  |              | <b>263.2</b> | <b>69,274</b> | <b>20,846</b> |                    |                    |
| 2.  |              | <b>237.2</b> | <b>56,264</b> | <b>33,856</b> |                    |                    |
| 3.  |              | <b>219.2</b> | <b>48,049</b> | <b>42,071</b> |                    |                    |
| 4.  |              | <b>184.2</b> | <b>33,930</b> | <b>56,190</b> |                    |                    |
| 5.  |              |              |               |               |                    |                    |

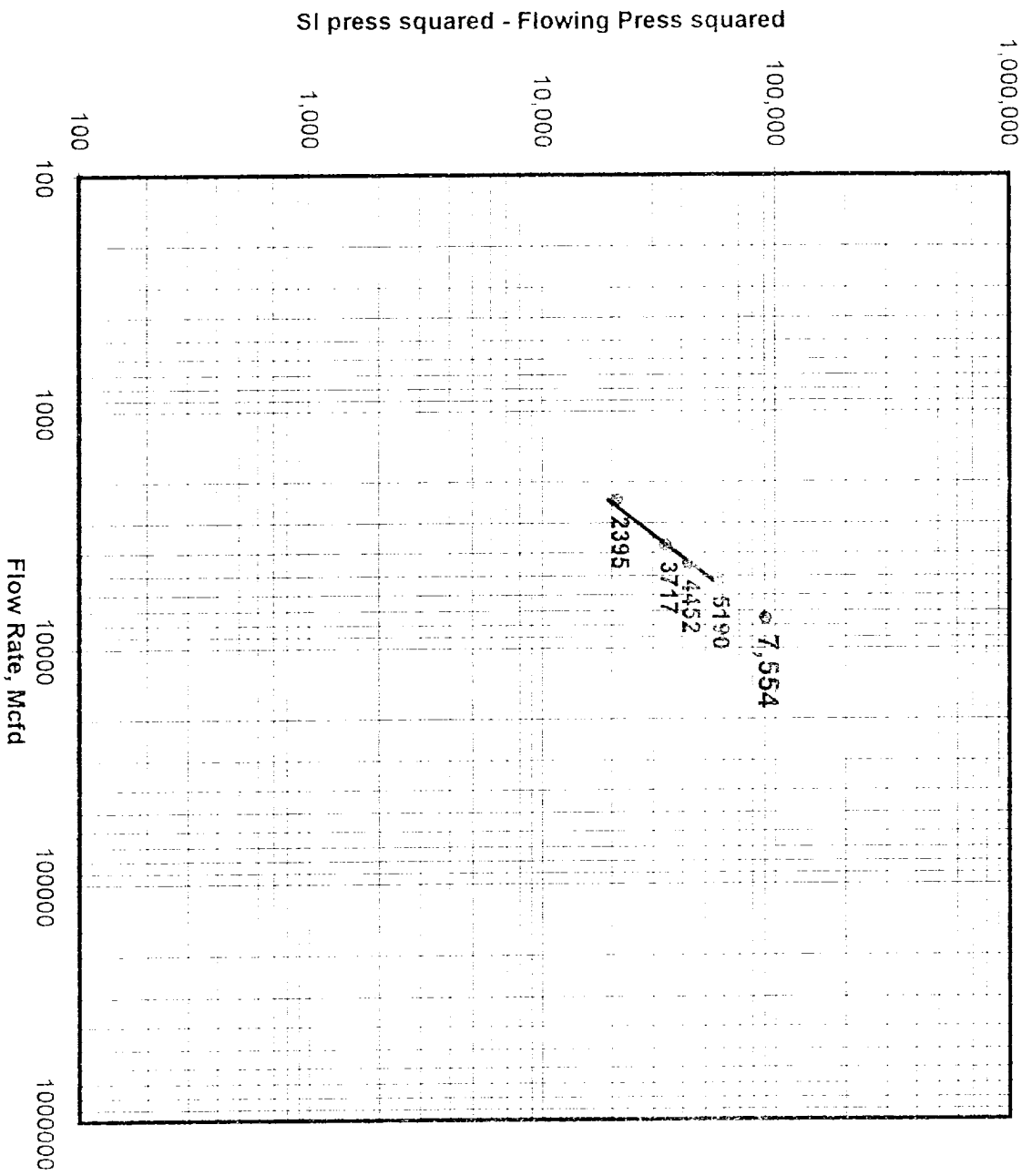
  

|                                                  |  |  |  |                                |  |                                     |  |
|--------------------------------------------------|--|--|--|--------------------------------|--|-------------------------------------|--|
| Absolute Open Flow<br><b>7,554</b> Mcfd @ 15.025 |  |  |  | Angle of Slope<br><b>51.53</b> |  | Slope, n = <b>0.795</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