

# 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                  |                                        |                                                           |                                                    |                                         |                      |          |                 |          |                  |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------|----------------------------------------|-----------------------------------------------------------|----------------------------------------------------|-----------------------------------------|----------------------|----------|-----------------|----------|------------------|
| Company<br>Amoco Production Company                                                                                       |                                 | Connection                 |                                        |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| Pool Bravo Dome Carbon Dioxide Gas Unit-640 Acre Area                                                                     |                                 | Formation                  |                                        |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| Completion Date<br>11-19-85                                                                                               | Total Depth<br>2637             | Plug Back TD<br>2550       | Elevation<br>4625                      |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| Csq. Size<br>7                                                                                                            | Wt.<br>20                       | Set At<br>2637             | Perforations:<br>From 2424 To 2481     |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| Thq. Size<br>3-1/2                                                                                                        | Wt.<br>9.3                      | Set At<br>2282             | Perforations:<br>From To               |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |                                 | Packer Set At<br>2252      | Unit<br>BDCDGU                         |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| Producing Thru<br>Tubing                                                                                                  | Reservoir Temp. °F<br>90 @ 2453 | Mean Annual Temp. °F<br>50 | Baro. Press. - P <sub>a</sub><br>12.25 |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| L<br>2453                                                                                                                 | H<br>2453                       | G <sub>g</sub><br>1.529    | % CO <sub>2</sub><br>100               |                                                           |                                                    |                                         |                      |          |                 |          |                  |
|                                                                                                                           |                                 | % N <sub>2</sub><br>0      | % H <sub>2</sub> S<br>0                |                                                           |                                                    |                                         |                      |          |                 |          |                  |
|                                                                                                                           |                                 | Prover                     | Meter Run<br>4.0                       |                                                           |                                                    |                                         |                      |          |                 |          |                  |
|                                                                                                                           |                                 |                            | Taps<br>Flange                         |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| FLOW DATA                                                                                                                 |                                 |                            |                                        |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| NO.                                                                                                                       | Prover Line Size                | X                          | Orifice Size                           | Press. p.s.i.g.                                           | Diff. h <sub>w</sub>                               | Temp. °F                                | TUBING DATA          |          | CASING DATA     |          | Duration of Flow |
|                                                                                                                           |                                 |                            |                                        |                                                           |                                                    |                                         | Press. p.s.i.g.      | Temp. °F | Press. p.s.i.g. | Temp. °F |                  |
| 1.                                                                                                                        | 4.026 x                         | 2.500                      |                                        | 182.5                                                     | 22                                                 | 47                                      | 361                  |          |                 |          |                  |
| 2.                                                                                                                        | 4.026 x                         | 2.500                      |                                        | 153.7                                                     | 26                                                 | 47                                      | 194.75               | 47       |                 |          | 1.5              |
| 3.                                                                                                                        | 4.026 x                         | 2.500                      |                                        | 124.8                                                     | 34                                                 | 47                                      | 165.95               | 47       |                 |          | 1.5              |
| 4.                                                                                                                        | 4.026 x                         | 2.500                      |                                        | 96.8                                                      | 47                                                 | 48                                      | 137.05               | 47       |                 |          | 1.5              |
| 5.                                                                                                                        |                                 |                            |                                        |                                                           |                                                    |                                         | 109.05               | 48       |                 |          | 1.5              |
| RATE OF FLOW CALCULATIONS                                                                                                 |                                 |                            |                                        |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| NO.                                                                                                                       | Coefficient (24 Hour)           | $\sqrt{h_w P_m}$           | Pressure P <sub>m</sub>                | Flow Temp. Factor F <sub>t</sub>                          | Gravity Factor F <sub>g</sub>                      | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |          |                 |          |                  |
| 1.                                                                                                                        |                                 |                            |                                        |                                                           |                                                    |                                         | 1600                 |          |                 |          |                  |
| 2.                                                                                                                        |                                 |                            |                                        |                                                           |                                                    |                                         | 1753                 |          |                 |          |                  |
| 3.                                                                                                                        |                                 |                            |                                        |                                                           |                                                    |                                         | 1860                 |          |                 |          |                  |
| 4.                                                                                                                        |                                 |                            |                                        |                                                           |                                                    |                                         | 1926                 |          |                 |          |                  |
| 5.                                                                                                                        |                                 |                            |                                        |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| NO.                                                                                                                       | P <sub>r</sub>                  | Temp. °R                   | T <sub>r</sub>                         | Z                                                         | Gas Liquid Hydrocarbon Ratio 0                     |                                         |                      |          |                 |          |                  |
| 1.                                                                                                                        |                                 |                            |                                        |                                                           | A.P.I. Gravity of Liquid Hydrocarbons Mct/bbl.     |                                         |                      |          |                 |          |                  |
| 2.                                                                                                                        |                                 |                            |                                        |                                                           | Specific Gravity Separator Gas 1.529 Deq.          |                                         |                      |          |                 |          |                  |
| 3.                                                                                                                        |                                 |                            |                                        |                                                           | Specific Gravity Flowing Fluid X X X X X X X X X X |                                         |                      |          |                 |          |                  |
| 4.                                                                                                                        |                                 |                            |                                        |                                                           | Critical Pressure 1072 P.S.I.A.                    |                                         |                      |          |                 |          |                  |
| 5.                                                                                                                        |                                 |                            |                                        |                                                           | Critical Temperature 496 R                         |                                         |                      |          |                 |          |                  |
| P <sub>c</sub> 373.2    P <sub>c</sub> <sup>2</sup> 139,278                                                               |                                 |                            |                                        |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| NO.                                                                                                                       | P <sub>i</sub> <sup>2</sup>     | P <sub>w</sub>             | P <sub>w</sub> <sup>2</sup>            | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |                                                    |                                         |                      |          |                 |          |                  |
| 1.                                                                                                                        |                                 | 195                        |                                        | 101.253                                                   |                                                    |                                         |                      |          |                 |          |                  |
| 2.                                                                                                                        |                                 | 166                        |                                        | 111.722                                                   |                                                    |                                         |                      |          |                 |          |                  |
| 3.                                                                                                                        |                                 | 137                        |                                        | 120.509                                                   |                                                    |                                         |                      |          |                 |          |                  |
| 4.                                                                                                                        |                                 | 109                        |                                        | 127.397                                                   |                                                    |                                         |                      |          |                 |          |                  |
| 5.                                                                                                                        |                                 |                            |                                        |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| Absolute Open Flow 2070 Mcfd @ 15.025                                                                                     |                                 |                            |                                        |                                                           | Angle of Slope 81                                  |                                         |                      |          |                 |          |                  |
| Remarks:                                                                                                                  |                                 |                            |                                        |                                                           |                                                    |                                         |                      |          |                 |          |                  |
| Approved By Commission:                                                                                                   |                                 | Conducted By:              |                                        | Calculated By: Don Kimble                                 |                                                    | Checked By:                             |                      |          |                 |          |                  |