

**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 9-24-85                  |  |
| Company Amoco Production Company                                                                                       |  |                       |  | Connection              |  |                                    |  |
| Pool Bravo Dome Carbon Dioxide Gas                                                                                     |  |                       |  | Formation               |  |                                    |  |
| Unit 640 Acre Area                                                                                                     |  |                       |  | Tubb                    |  |                                    |  |
| Completion Date 4-8-81                                                                                                 |  | Total Depth 2830      |  | Plug Back TD 2680       |  | Elevation 5070                     |  |
| Csg. Size 5-1/2                                                                                                        |  | Wt. 14                |  | Set At 2830             |  | Perforations: From 2500 To 2616    |  |
| Tbg. Size 2-3/8                                                                                                        |  | Wt. 4.7               |  | Set At 2343             |  | Perforations: From To              |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple                                                                |  |                       |  |                         |  | Packer Set At 2312                 |  |
| Single                                                                                                                 |  |                       |  |                         |  | County Harding                     |  |
| Producing Thru Tubing                                                                                                  |  | Reservoir Temp. °F 90 |  | Mean Annual Temp. °F 50 |  | Baro. Press. - P <sub>a</sub> 12.2 |  |
| L 2558                                                                                                                 |  | H 2558                |  | G <sub>g</sub> 1.529    |  | % 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. |                  | Temp. °F |
| 1.        | 4.026 x 0.875    |   |              | 202             | 5                    | 49          | 202             | 50          |                 |                  | 24 hr.   |
| 2.        | "                |   | "            | 234             | 1                    | 46          | 234             | "           |                 |                  | "        |
| 3.        | "                |   | "            | 244             | 0                    | 43          | 244             | "           |                 |                  | "        |
| 4.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 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.                        |                       |                  |                         |                       |                               |                                         | 110                  |
| 2.                        |                       |                  |                         |                       |                               |                                         | 61                   |
| 3.                        |                       |                  |                         |                       |                               |                                         | 30                   |
| 4.                        |                       |                  |                         |                       |                               |                                         |                      |
| 5.                        |                       |                  |                         |                       |                               |                                         |                      |

  

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

  

|                      |                                    |                                          |                                                           |
|----------------------|------------------------------------|------------------------------------------|-----------------------------------------------------------|
| P <sub>c</sub> 260.2 | P <sub>c</sub> <sup>2</sup> 67.704 | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.10$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.86$ |
| NO.                  | P <sub>t</sub> <sup>2</sup>        | P <sub>w</sub> <sup>2</sup>              | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
| 1.                   | 214.2                              |                                          | 21.822                                                    |
| 2.                   | 246.2                              |                                          | 7.090                                                     |
| 3.                   | 256.2                              |                                          | 2.066                                                     |
| 4.                   |                                    |                                          |                                                           |
| 5.                   |                                    |                                          |                                                           |

  

|                                      |  |                      |  |
|--------------------------------------|--|----------------------|--|
| Absolute Open Flow 204 Mcfd @ 15.025 |  | Angle of Slope θ .55 |  |
| Remarks:                             |  |                      |  |
| Approved By Commission:              |  | Conducted By:        |  |
| Calculated By: D. D. Kimble          |  | Checked By:          |  |