

**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<br>10-1-85                  |                         |
| Company<br>Amoco Production Company                                                                                    |            |                                 |                          | Connection                            |                         |
| Pool Bravo Dome Carbon Dioxide Gas Formation<br>Unit 640 Acre Area                                                     |            |                                 |                          | Unit<br>BDCDGU                        |                         |
| Completion Date<br>2-7-84                                                                                              |            | Total Depth<br>2750             |                          | Plug Back TD<br>2688                  |                         |
|                                                                                                                        |            |                                 |                          | Elevation<br>4765                     |                         |
| Csg. Size<br>7                                                                                                         | Wt.<br>20  | d                               | Set At<br>2750           | Perforations:<br>From 2483 To 2597    |                         |
| Tbg. Size<br>3-1/2                                                                                                     | Wt.<br>9.3 | d                               | Set At<br>2378           | Perforations:<br>From To              |                         |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                      |            |                                 |                          | Packer Set At<br>2245                 |                         |
| Producing Thru<br>Tubing                                                                                               |            | Reservoir Temp. °F<br>90 @ 2540 |                          | Mean Annual Temp. °F<br>50            |                         |
|                                                                                                                        |            |                                 |                          | Baro. Press. - P <sub>a</sub><br>12.2 |                         |
| L<br>2540                                                                                                              | H<br>2540  | 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<br>Meter Run<br>4.0            |                         |
|                                                                                                                        |            |                                 |                          | Taps<br>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. |                  |
| SI        |                  |   |              |                 |                      |             | 316             |             |                 |                  |
| 1.        | 4.026 x 2.50     |   |              | 191             | 33                   | 57          | 191             | 50          |                 |                  |
| 2.        | " "              |   |              | 212             | 24                   | 57          | 212             | "           |                 |                  |
| 3.        | " "              |   |              | 232             | 17                   | 58          | 232             | "           |                 |                  |
| 4.        | " "              |   |              | 257             | 10                   | 57          | 257             | "           |                 |                  |
| 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                         |                       |                  |                         |                       |                               |                                         | 2272                 |
| 2                         |                       |                  |                         |                       |                               |                                         | 2083                 |
| 3                         |                       |                  |                         |                       |                               |                                         | 1775                 |
| 4                         |                       |                  |                         |                       |                               |                                         | 1496                 |
| 5                         |                       |                  |                         |                       |                               |                                         |                      |

  

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

  

|                      |                             |                                          |                                                           |
|----------------------|-----------------------------|------------------------------------------|-----------------------------------------------------------|
| P <sub>c</sub> 328.2 | P <sub>c</sub> 107.715      | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.62$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.38$ |
| NO.                  | P <sub>t</sub> <sup>2</sup> | P <sub>w</sub>                           | P <sub>w</sub> <sup>2</sup>                               |
| 1                    |                             | 203.2                                    | 66.425                                                    |
| 2                    |                             | 224.2                                    | 57.450                                                    |
| 3                    |                             | 244.2                                    | 48.082                                                    |
| 4                    |                             | 269.2                                    | 35.247                                                    |
| 5                    |                             |                                          |                                                           |

  

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3126$

Absolute Open Flow 3126 Mcfd @ 15.025

Angle of Slope  $\theta$  \_\_\_\_\_

Slope, n .66

  

Remarks:

  

|                         |               |                                |             |
|-------------------------|---------------|--------------------------------|-------------|
| Approved By Commission: | Conducted By: | Calculated By:<br>D. D. Kimble | Checked By: |
|-------------------------|---------------|--------------------------------|-------------|

1834 121M

46 7400

LOGARITHMIC 3 X 3 CYCLES  
KEUFFEL & ESSER CO. MADE IN U.S.A.

