

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: 6/5/85                  |               |                       |  |
| Company: Amoco Production Company                                                                                       |           |                           |                       |                                   |                      | Connection:                        |               |                       |  |
| Pool: Bravo Dome Carbon Dioxide Gas Unit 640 Acre Area                                                                  |           |                           |                       |                                   |                      | Formation: Tubb                    |               | Unit: BDCDGU          |  |
| Completion Date: 11/30/83                                                                                               |           | Total Depth: 2740'        |                       | Plug Back TD: 2616'               |                      | Elevation: 4551' GL                |               | Farm or Lease Name: 1 |  |
| Csg. Size: 11/30/83                                                                                                     | Wt.: 20#  | d:                        | Set At: 2740'         | Perforations: From 2153' To 2254' |                      | Well No.: 1835 141G                |               |                       |  |
| Tbg. Size: 3-1/2"                                                                                                       | Wt.: 9.3# | d:                        | Set At: 2111'         | Perforations: From To             |                      | Unit Sec. Twp. Rge. G 14 18 35     |               |                       |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single                                                          |           |                           |                       |                                   |                      | Packer Set At: 2080'               |               | County: Union         |  |
| Producing Thru Tubing                                                                                                   |           | Reservoir Temp. °F @ 2203 |                       | Mean Annual Temp. °F 50           |                      | Baro. Press. - P <sub>a</sub> 12.2 |               | State: New Mexico     |  |
| L 2203'                                                                                                                 | H 2203'   | 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. |                  |
| SI        |                  |   |              |                 |                      |             | 305             |             |                 |                  |
| 1.        | 4.026 x 1.5      |   |              | 220             | 37                   | 63          | 232.2           |             |                 |                  |
| 2.        | 4.026 x 1.5      |   |              | 239             | 24                   | 60          | 251.2           |             |                 | 24 hrs           |
| 3.        | 4.026 x 1.5      |   |              | 254             | 14                   | 60          | 266.2           |             |                 | 24 hrs           |
| 4.        | 4.026 x 1.5      |   |              | 275             | 7                    | 61          | 287.2           |             |                 | 24 hrs           |
| 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 Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1                         |                       |                  |                         |                      |                   |                             | 835                  |
| 2                         |                       |                  |                         |                      |                   |                             | 712                  |
| 3                         |                       |                  |                         |                      |                   |                             | 567                  |
| 4                         |                       |                  |                         |                      |                   |                             | 400                  |
| 5                         |                       |                  |                         |                      |                   |                             |                      |

  

|     |                |          |                |   |                                          |                 |
|-----|----------------|----------|----------------|---|------------------------------------------|-----------------|
| NO. | P <sub>f</sub> | Temp. °R | T <sub>f</sub> | Z | Gas Liquid Hydrocarbon Ratio 0           | Mcf/bbl.        |
| 1   |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons 0  | Deq.            |
| 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.        |
| 5   |                |          |                |   | Critical Temperature 547                 | P.S.I.A.        |

  

|                      |                                    |                                           |                                                            |
|----------------------|------------------------------------|-------------------------------------------|------------------------------------------------------------|
| P <sub>c</sub> 317.2 | P <sub>c</sub> <sup>2</sup> 100.61 | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.155$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.819$ |
| NO.                  | P <sub>f</sub> <sup>2</sup>        | P <sub>w</sub>                            | P <sub>w</sub> <sup>2</sup>                                |
| 1                    |                                    | 232.2                                     | 46.700                                                     |
| 2                    |                                    | 251.2                                     | 37.514                                                     |
| 3                    |                                    | 266.2                                     | 29.753                                                     |
| 4                    |                                    | 287.2                                     | 18.132                                                     |
| 5                    |                                    |                                           |                                                            |

  

|                                       |               |                             |              |
|---------------------------------------|---------------|-----------------------------|--------------|
| Absolute Open Flow 1519 Mcfd @ 15.025 |               | Angle of Slope @            | Slope, n .78 |
| Remarks:                              |               |                             |              |
|                                       |               |                             |              |
| Approved By Commission:               | Conducted By: | Calculated By: D. D. Kimble | Checked By:  |