

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-65

**RECEIVED**

|                                                                                                                         |          |                        |                         |                                 |                       |                                  |                |                           |
|-------------------------------------------------------------------------------------------------------------------------|----------|------------------------|-------------------------|---------------------------------|-----------------------|----------------------------------|----------------|---------------------------|
| Type Test: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |          |                        |                         |                                 | Test Date: 6/1/84     |                                  | AUG 9 1984     |                           |
| Company: Amoco Production Company                                                                                       |          |                        |                         | Connection:                     |                       |                                  |                | OIL CONSERVATION DIVISION |
| Pool: Bravo Dome                                                                                                        |          |                        |                         | Formation: Tubb                 |                       |                                  |                |                           |
| Completion Date: 5/16/81                                                                                                |          | Total Depth: 2568      |                         | Plug Back TD: 2430              |                       | Elevation: 4560                  |                | Form or Lease Name:       |
| Csg. Size: 5-1/2                                                                                                        | Wt. 14#  | d                      | Set At: 2562            | Perforations: From 2069 To 2184 |                       | Well No. 1935 231K               |                |                           |
| Tubg. Size: 2-7/8                                                                                                       | Wt. 6.5# | d                      | Set At: 2068            | Perforations: From To           |                       | Unit Sec. Twp. Rye. K 23 19N 35E |                |                           |
| Type Well - Single - Bradenhead - G.C. or G.O. Multiple: Single                                                         |          |                        |                         |                                 | Packer Set At: 2029   |                                  | County: Union  |                           |
| Producing Thru: Tubing                                                                                                  |          | Reservoir Temp. °F: 90 |                         | Mean Annual Temp. °F:           |                       | Baro. Press. - P <sub>0</sub> :  |                | State: New Mexico         |
| L: 2127                                                                                                                 | H: 2127  | Gg: 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 |
| SI        |                  |   |              |                 |                      |             | 332.9           | 50          |                 |                  | 1000 HR  |
| 1.        | 4.026 x 2.0      |   |              | 286             | 8                    | 66          | 280             | 50          |                 |                  | 1.5      |
| 2.        | 4.026 x 2.0      |   |              | 243             | 32                   | 63          | 239             | 50          |                 |                  | 1.5      |
| 3.        | 4.026 x 2.0      |   |              | 209             | 60                   | 62          | 206             | 50          |                 |                  | 1.5      |
| 4.        | 4.026 x 2.0      |   |              | 171             | 94                   | 61          | 170             | 50          |                 |                  | 1.5      |
| 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                         |                       |                  |                         |                      |                   |                             | 815                  |
| 2                         |                       |                  |                         |                      |                   |                             | 1533                 |
| 3                         |                       |                  |                         |                      |                   |                             | 1933                 |
| 4                         |                       |                  |                         |                      |                   |                             | 2205                 |
| 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: _____ 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: 496 R R                         |

  

|     |                |                |                             |                                                           |                                                                                                                                                                    |
|-----|----------------|----------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NO. | F <sub>1</sub> | 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> | $(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.387$ $(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.314$ $AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2898$ |
| 1   |                | 292.3          |                             | 33.7                                                      |                                                                                                                                                                    |
| 2   |                | 251.3          |                             | 56.0                                                      |                                                                                                                                                                    |
| 3   |                | 218.3          |                             | 71.5                                                      |                                                                                                                                                                    |
| 4   |                | 182.3          |                             | 85.9                                                      |                                                                                                                                                                    |
| 5   |                |                |                             |                                                           |                                                                                                                                                                    |

  

|                                        |  |                         |  |                |
|----------------------------------------|--|-------------------------|--|----------------|
| Absolute Open Flow: 2898 Mcfd @ 15.025 |  | Angle of Slope θ: _____ |  | Slope, n: .836 |
| Remarks: _____                         |  |                         |  |                |

  

|                         |                     |                          |                   |
|-------------------------|---------------------|--------------------------|-------------------|
| Approved By Commission: | Conducted By: _____ | Calculated By: Don White | Checked By: _____ |
|-------------------------|---------------------|--------------------------|-------------------|