

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                   |                       |                                       |                | Unit: BDCDGU                     |  |
| Completion Date: 5/17/81                                                                                                |          | Total Depth: 2560'             |                         | Plug Back TD: 2493'               |                       | Elevation: 4510'                      |                | Farm or Lease Name:              |  |
| Csg. Size: 5-1/2                                                                                                        | Wt. 14#  | d                              | Set At: 2560'           | Perforations: From 2123' To 2170' |                       |                                       |                | Well No. 1935 1416               |  |
| Tub. Size: 2-7/8                                                                                                        | Wt. 6.5# | d 2.438                        | Set At: 2113'           | Perforations: From To             |                       |                                       |                | Unit Sec. Twp. Rge. G 14 19N 35E |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single                                                         |          |                                |                         | Packer Set At: 2074'              |                       | County: Union                         |                |                                  |  |
| Producing Thru: Tubing                                                                                                  |          | Reservoir Temp. °F: 90 @ 2147' |                         | Mean Annual Temp. °F: 50          |                       | Baro. Press. - P <sub>a</sub> : 12.25 |                | State: New Mexico                |  |
| L: 2147'                                                                                                                | H: 2147' | 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 |
| SI        |                  |       |              |                 |                      |             | 334.5           |             |                 |                  | 1000 HR  |
| 1.        | 4.026 x          | 2.125 |              | 275             | .5                   | 89          | 274             |             |                 |                  | 1.5      |
| 2.        | 4.026 x          | 2.125 |              | 240             | 24                   | 64          | 239             |             |                 |                  | 1.5      |
| 3.        | 4.026 x          | 2.125 |              | 211             | 50                   | 64          | 211             |             |                 |                  | 1.5      |
| 4.        | 4.026 x          | 2.125 |              | 203             | 57                   | 63          | 204             |             |                 |                  | 1.5      |
| 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                         |                       |                  |                         |                                  |                               |                                         | 85                   |
| 2                         |                       |                  |                         |                                  |                               |                                         | 1509                 |
| 3                         |                       |                  |                         |                                  |                               |                                         | 2016                 |
| 4                         |                       |                  |                         |                                  |                               |                                         | 2115                 |
| 5                         |                       |                  |                         |                                  |                               |                                         |                      |

  

|     |                |          |                |   |                                                   |
|-----|----------------|----------|----------------|---|---------------------------------------------------|
| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</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 XXXXXXXXXX  |
| 3   |                |          |                |   | Specific Gravity Flowing Fluid: XXXXXX            |
| 4   |                |          |                |   | Critical Pressure: 1072 P.S.I.A. P.S.I.A.         |
| 5   |                |          |                |   | Critical Temperature: 496 R R                     |

  

|                        |                             |                |                             |
|------------------------|-----------------------------|----------------|-----------------------------|
| P <sub>r</sub> : 346.8 | P <sub>c</sub> <sup>2</sup> |                |                             |
| NO.                    | P <sub>c</sub> <sup>2</sup> | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> |
| 1                      |                             | 286.3          | 38.3                        |
| 2                      |                             | 251.3          | 57.1                        |
| 3                      |                             | 223.3          | 70.4                        |
| 4                      |                             | 216.3          | 73.5                        |
| 5                      |                             |                |                             |

  

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = 1.503$

ACF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3307$

(2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.503$

  

|                                        |                         |                          |
|----------------------------------------|-------------------------|--------------------------|
| Absolute Open Flow: 3307 Mcfd @ 15.025 | Angle of Slope θ: _____ | Slope, n: 1.0            |
| Remarks: _____                         |                         |                          |
| Approved By:                           | Conducted By: _____     | Calculated By: Don White |
|                                        |                         | Checked By: _____        |