

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<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |             |                                 |                          | Test Date<br>5/30/84                    |                         | AUG 9 1984                             |                              |
| Company<br>Amoco Production Company                                                                                       |             |                                 |                          | Connection<br>OIL CONSERVATION DIVISION |                         |                                        |                              |
| Pool<br>Bravo Dome                                                                                                        |             |                                 |                          | Formation<br>Tubb                       |                         | Unit<br>BDCDGU                         |                              |
| Completion Date<br>5/24/82                                                                                                |             | Total Depth<br>2545             |                          | Plug Back TD<br>2475                    |                         | Elevation<br>4585                      |                              |
| Csg. Size<br>5-1/2                                                                                                        | Wt.<br>14#  | d<br>2545                       | Set At<br>2545           | Perforations:<br>From 2077 To 2241      |                         | Well No.<br>1935 211K                  |                              |
| Teg. Size<br>2-7/8                                                                                                        | Wt.<br>6.5# | d<br>2.438                      | Set At<br>2039           | Perforations:<br>From To                |                         | Unit<br>K                              | Sec. Twp. Rge.<br>21 19N 35E |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |             |                                 |                          | Packer Set At<br>2000                   |                         | County<br>Union                        |                              |
| Producing Thru<br>Tubing                                                                                                  |             | Reservoir Temp. °F<br>90 @ 2150 |                          | Mean Annual Temp. °F<br>50              |                         | Baro. Press. - P <sub>a</sub><br>12.25 |                              |
| State<br>New Mexico                                                                                                       |             |                                 |                          |                                         |                         |                                        |                              |
| L<br>2159                                                                                                                 | H<br>2159   | 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                                 | 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. |                  | Temp. °F |
| SI        |                  |   |              |                 |                      |             | 332.2           | 50          |                 |                  | 1000 HR  |
| 1.        | 4.026 x 2.5      |   |              | 267             | 16                   | 58          | 264             | 50          |                 |                  | 1.5      |
| 2.        | 4.026 x 2.5      |   |              | 241             | 28                   | 58          | 238             | 50          |                 |                  | 1.5      |
| 3.        | 4.026 x 2.5      |   |              | 206             | 45                   | 58          | 204             | 50          |                 |                  | 1.5      |
| 4.        | 4.026 x 2.5      |   |              | 190             | 55                   | 57          | 189             | 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                         |                       |                  |                         |                       |                   |                             | 1864                 |
| 2                         |                       |                  |                         |                       |                   |                             | 2341                 |
| 3                         |                       |                  |                         |                       |                   |                             | 2748                 |
| 4                         |                       |                  |                         |                       |                   |                             | 2929                 |
| 5                         |                       |                  |                         |                       |                   |                             |                      |

|     |                |          |                |   |                                                      |
|-----|----------------|----------|----------------|---|------------------------------------------------------|
| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio _____ 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                   |

|                      |                      |                                   |                                                                 |                                           |                                                            |
|----------------------|----------------------|-----------------------------------|-----------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------|
| P <sub>r</sub> 344.5 | 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) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.527$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.357$ |
| NO.                  | 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                    | 276.3                |                                   | 42.3                                                            |                                           |                                                            |
| 2                    | 250.3                |                                   | 56.0                                                            |                                           |                                                            |
| 3                    | 216.3                |                                   | 71.9                                                            |                                           |                                                            |
| 4                    | 202.3                |                                   | 77.7                                                            |                                           |                                                            |
| 5                    |                      |                                   |                                                                 |                                           |                                                            |

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3976$

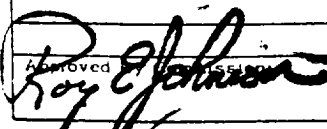
  

|                                       |                        |               |
|---------------------------------------|------------------------|---------------|
| Absolute Open Flow 3976 Mcfd @ 15.025 | Angle of Slope @ _____ | Slope, n .722 |
|---------------------------------------|------------------------|---------------|

Remarks: \_\_\_\_\_

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