

**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: 10-23-73    |                                      |
| Company: Pennzoil Company                                                                                               |         |                                  |                         | Connection: None                  |                        |                                      |
| Pool: <i>Willcox S. Capitalad Wolfcamp</i><br>Undesignated (Wolfcamp)                                                   |         |                                  |                         | Formation: Wolfcamp               |                        | Unit: I                              |
| Completion Date: 10-23-73                                                                                               |         | Total Depth: 11775               |                         | Plug Back TD: 9753                |                        | Elevation: 3178 Gr.                  |
| Farm or Lease Name: Moore Comm                                                                                          |         | Well No. 1                       |                         |                                   |                        |                                      |
| Ceq. Size: 5 1/2"                                                                                                       | Wt. 17  | d 4.892"                         | Set At 9802'            | Perforations: From 9605' To 9628' |                        | Unit Sec. Twp. Rys. 1 23 22S 26E     |
| Tub. Size: 2 3/8 EUE                                                                                                    | Wt. 4.7 | d 1.995                          | Set At 9544             | Perforations: From To             |                        | County: Eddy                         |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single                                                         |         |                                  |                         | Packer Set At: 9544               |                        | State: New Mexico                    |
| Producing Thru: Tubing                                                                                                  |         | Reservoir Temp. °F: 138° @ 9617' |                         | Mean Annual Temp. °F: 60          |                        | Baro. Press. - P <sub>a</sub> : 13.2 |
| L 9617                                                                                                                  | H 9617  | G <sub>g</sub> 700               | % CO <sub>2</sub> .0012 | % N <sub>2</sub> .0069            | % H <sub>2</sub> S .04 | Prover Meter Run Taps X              |

  

| FLOW DATA |                  |     |              | TUBING DATA     |          |          | CASING DATA     |          | Duration of Flow |
|-----------|------------------|-----|--------------|-----------------|----------|----------|-----------------|----------|------------------|
| NO.       | Prover Line Size | X   | Orifice Size | Press. p.s.i.g. | Diff. hw | Temp. °F | Press. p.s.i.g. | Temp. °F |                  |
| 1         | 6.0              | 2.0 | 224          | 6"              | 600      | 3570     | 750             |          |                  |
| 2         | 6.0              | 2.0 | 227          | 15"             | 830      | 3503     | 780             |          |                  |
| 3         | 6.0              | 2.0 | 227          | 33.5"           | 720      | 3369     | 780             |          |                  |
| 4         | 6.0              | 2.0 | 234          | 80"             | 550      | 3073     | 800             |          |                  |
| 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                         | 19.16                 | 37.723           | 237.2                   | 1.000                 | 1.195             | 1.020                       | 889                  |
| 2                         | 19.16                 | 60.025           | 240.2                   | .9786                 | 1.195             | 1.024                       | 1377                 |
| 3                         | 19.16                 | 89.703           | 240.2                   | .9887                 | 1.195             | 1.027                       | 2085                 |
| 4                         | 19.16                 | 140.627          | 247.2                   | 1.0048                | 1.195             | 1.031                       | 3336                 |
| 5                         |                       |                  |                         |                       |                   |                             |                      |

  

| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z    | Gas Liquid Hydrocarbon Ratio | A.P.I. Gravity of Liquid Hydrocarbons | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure | Critical Temperature |
|-----|----------------|----------|----------------|------|------------------------------|---------------------------------------|--------------------------------|--------------------------------|-------------------|----------------------|
| 1   | .36            | 520      | 1.33           | .945 | 10298                        | 56.3                                  | .700                           | XXXXXX                         | 668               | 392                  |
| 2   | .36            | 543      | 1.39           | .953 |                              |                                       |                                |                                |                   |                      |
| 3   | .36            | 532      | 1.36           | .949 |                              |                                       |                                |                                |                   |                      |
| 4   | .37            | 515      | 1.31           | .940 |                              |                                       |                                |                                |                   |                      |
| 5   |                |          |                |      |                              |                                       |                                |                                |                   |                      |

  

| NO. | P <sub>r</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> - P <sub>r</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ |
|-----|-----------------------------|-----------------------------|-----------------------------------------------------------|-------------------------------------|------------------------------------------------------|
| 1   | 3533.6                      | 12486                       | 1109                                                      | 4047                                | 3.350                                                |
| 2   | 3469.0                      | 12034                       | 1561                                                      |                                     |                                                      |
| 3   | 3333.7                      | 11114                       | 2481                                                      |                                     |                                                      |
| 4   | 3090.0                      | 9548                        | 4047                                                      |                                     |                                                      |
| 5   |                             |                             |                                                           |                                     |                                                      |

  

Absolute Open Flow: 11206 Mcfd @ 15.025    Angle of Slope θ: 45°    Slope, n: 1.00  
 Remarks: Sub surface pressure recorded with Anerada type RPG 3 recording pressure gauge.

|                         |                             |                            |             |
|-------------------------|-----------------------------|----------------------------|-------------|
| Approved by Commission: | Conducted By: J.N. Casparis | Calculated By: H.L. Hagler | Checked By: |
|-------------------------|-----------------------------|----------------------------|-------------|