

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-122  
Revised 10-1-78

## MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

|                                                                                                                           |                         |                                     |                                    |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------|------------------------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                         | Test Date<br>7-11-85                |                                    |
| Company<br>SHERMAN F. WAGENSELLER                                                                                         |                         | Connection<br>NEW WELL              |                                    |
| Pool<br>S. BLANCO                                                                                                         |                         | Formation<br>PICTURE CLIFF          |                                    |
| Completion Date<br>7-2-85                                                                                                 |                         | Total Depth<br>3300                 | Plug Back TD<br>3258               |
|                                                                                                                           |                         | Elevation<br>7452                   | Farm or Lease Name<br>MOBIL APACHE |
| Csg. Size<br>4.500                                                                                                        | WI.<br>10.5             | d<br>4.052                          | Set At<br>3295                     |
| Perforations:<br>From 3200 To 3254                                                                                        |                         | Well No.<br>23                      |                                    |
| Tog. Size<br>2 3/8                                                                                                        | WI.<br>4.3              | d<br>1.995                          | Set At<br>3248                     |
| Perforations:<br>From 3200 To 3234                                                                                        |                         | Unit Sec. Twp. Rge.<br>K 13 23N 34W |                                    |
| Type Well - Single - Bradenhead - G.C. or G.O. Multiple<br>SINGLE                                                         |                         | Packer Set At                       | County<br>R.A.A.                   |
| Producing Thru<br>TRG                                                                                                     | Reservoir Temp. °F<br>@ | Mean Annual Temp. °F                | Baro. Press. - P <sub>a</sub>      |
| L H Gg % CO <sub>2</sub> % N <sub>2</sub> % H <sub>2</sub> S Prover                                                       |                         | State<br>N.M.                       |                                    |
|                                                                                                                           |                         | Meter Run                           | Taps                               |

  

| 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 |
| 1.        |                  |   | 750          |                 |                      |             | 858             |             | 852             |                  | 7 DAY    |
| 2.        |                  |   |              |                 |                      |             | 38              | 66          | 46              |                  | 3HR      |
| 3.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 4.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 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, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1.                        | 12,3650               |                  | 50                      | .9943                 | .9608             | 1.004                                   | 592                  |
| 2.                        |                       |                  |                         |                       |                   |                                         |                      |
| 3.                        |                       |                  |                         |                       |                   |                                         |                      |
| 4.                        |                       |                  |                         |                       |                   |                                         |                      |
| 5.                        |                       |                  |                         |                       |                   |                                         |                      |

  

| NO. | P <sub>i</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.  |                |          |                |   |                              |                                       | .650 EST                       | X X X X X                      |                   |                      |
| 2.  |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 3.  |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 4.  |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 5.  |                |          |                |   |                              |                                       |                                |                                |                   |                      |

  

|                    |                       |                                            |                                                             |
|--------------------|-----------------------|--------------------------------------------|-------------------------------------------------------------|
| P <sub>c</sub> 870 | P <sub>w</sub> 756900 | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0045$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0038$ |
| NO.                | P <sub>i</sub>        | P <sub>w</sub>                             | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>   |
| 1.                 |                       | 58                                         | 3364                                                        |
| 2.                 |                       |                                            | 753536                                                      |
| 3.                 |                       |                                            |                                                             |
| 4.                 |                       |                                            |                                                             |
| 5.                 |                       |                                            |                                                             |

  

|                        |  |               |                  |           |
|------------------------|--|---------------|------------------|-----------|
| Absolute Open Flow 594 |  | Mold @ 15.025 | Angle of Slope @ | Slope, 85 |
|------------------------|--|---------------|------------------|-----------|

  

Remarks: Full unloaded slug of water & distillate first minutes, then blow a heavy slug of water & distillate rest of test.

  

|                      |                                  |                                   |             |
|----------------------|----------------------------------|-----------------------------------|-------------|
| Approved By Division | Conducted By: <i>C.R. Wagner</i> | Calculated By: <i>C.R. Wagner</i> | Checked By: |
|----------------------|----------------------------------|-----------------------------------|-------------|