

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

Form C-122  
Revised 9-1-65

|                                                                                                                           |  |                         |  |                                    |  |                                       |  |
|---------------------------------------------------------------------------------------------------------------------------|--|-------------------------|--|------------------------------------|--|---------------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                         |  | Test Date<br>3-22-74               |  | NM03605A                              |  |
| Company<br>Western Oil & Minerals                                                                                         |  |                         |  | Connection<br>None                 |  | 1520FSL 1670FWL                       |  |
| Pool<br>Blanco MV                                                                                                         |  |                         |  | Formation<br>MV                    |  | Unit                                  |  |
| Completion Date<br>3-15-74                                                                                                |  | Total Depth<br>5547     |  | Plug Back TD<br>5501               |  | Elevation<br>6662 GL                  |  |
| Well No.<br>4 1/2                                                                                                         |  | Set At<br>10.23         |  | Perforations:<br>From 5237 To 5493 |  | Well No.<br>6                         |  |
| Tbg. Size<br>1 1/4                                                                                                        |  | Set At<br>2.4           |  | Perforations:<br>From 5332 To 5336 |  | Unit Sec. Twp. Rge.<br>K 24 27N 8W    |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple                                                                   |  |                         |  | Packer Set At                      |  | County<br>San Juan                    |  |
| Producing Thru<br>Tubing                                                                                                  |  | Reservoir Temp. °F<br>a |  | Mean Annual Temp. °F               |  | Baro. Press. - P <sub>a</sub><br>12.0 |  |
| L                                                                                                                         |  | H                       |  | Gg                                 |  | Prover                                |  |
|                                                                                                                           |  |                         |  | % CO <sub>2</sub>                  |  | % N <sub>2</sub>                      |  |
|                                                                                                                           |  |                         |  | % H <sub>2</sub> S                 |  | Choke                                 |  |

  

| FLOW DATA |                  |              |                 |                      | TUBING DATA |                 | CASING DATA |  | Duration of Flow |
|-----------|------------------|--------------|-----------------|----------------------|-------------|-----------------|-------------|--|------------------|
| NO.       | Prover Line Size | Orifice Size | Press. p.s.i.g. | Diff. h <sub>w</sub> | Temp. °F    | Press. p.s.i.g. | Temp. °F    |  |                  |
| SI        | 3-15-74          |              |                 |                      |             | 1003            |             |  |                  |
| 1.        | .750 TC          |              | 75              |                      |             | 75              | 570         |  |                  |
| 2.        |                  |              |                 |                      |             |                 | 47          |  |                  |
| 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>sc</sub> | Rate of Flow Q, Mcfd |
| 1                         | 12.365                |                  | 87                      | 1.0127                | 1.000             |                                        | 1089                 |
| 2                         |                       |                  |                         |                       |                   |                                        |                      |
| 3                         |                       |                  |                         |                       |                   |                                        |                      |
| 4                         |                       |                  |                         |                       |                   |                                        |                      |
| 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   |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 2   |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 3   |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 4   |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 5   |                |          |                |   |                              |                                       |                                |                                |                   |                      |

  

|                                                             |                |                                            |                             |                                                             |  |
|-------------------------------------------------------------|----------------|--------------------------------------------|-----------------------------|-------------------------------------------------------------|--|
| P <sub>c</sub> 1015    P <sub>w</sub> <sup>2</sup> 1030.225 |                | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4898$ |                             | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3485$ |  |
| NO.                                                         | P <sub>r</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                                                           | 7.569          | 582                                        | 338.724                     | 691.501                                                     |  |
| 2                                                           |                |                                            |                             |                                                             |  |
| 3                                                           |                |                                            |                             |                                                             |  |
| 4                                                           |                |                                            |                             |                                                             |  |
| 5                                                           |                |                                            |                             |                                                             |  |

  

|                                                                |  |                              |  |                               |  |                            |  |
|----------------------------------------------------------------|--|------------------------------|--|-------------------------------|--|----------------------------|--|
| AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,469$ |  | 1,469 Mcfd @ 15.025          |  | Angle of Slope θ              |  | Slope, n .75               |  |
| Remarks:                                                       |  |                              |  |                               |  |                            |  |
| Approved By Commission:                                        |  | Conducted By:<br>W. B. Smith |  | Calculated By:<br>W. B. Smith |  | Checked By:<br>W. B. Smith |  |

[illegible]