

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

Form C-122  
Revised 9-1-61

|                                                                                                                           |            |                                     |                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------|--------------------------------------------------------------------------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |            | Test Date<br>12-18-85               |                                                                                      |
| Company<br>El Paso Natural Gas                                                                                            |            | Connection                          |                                                                                      |
| Pool<br>Blanco                                                                                                            |            | Formation<br>Mesa Verde             |                                                                                      |
| Completion Date<br>12-18-85                                                                                               |            | Total Depth<br>6931'                | Plug Back TD<br>6920                                                                 |
|                                                                                                                           |            | Elevation<br>5879 GR                | Form or Lease Name<br>McDermitt                                                      |
| Csg. Size<br>7.000                                                                                                        | Wt.<br>20  | d<br>6.456                          | Set At<br>4150                                                                       |
| Perforations:<br>From 4582' To 4922                                                                                       |            | Well No.<br>#1M                     |                                                                                      |
| Req. Size<br>2.375                                                                                                        | Wt.<br>4.7 | d<br>1.995                          | Set At<br>3972                                                                       |
| Perforations:<br>From To                                                                                                  |            | Unit Sec. Twp. Rge.<br>E 06 31 12   |                                                                                      |
| Type Well - Single - Brdhead - G.G. or G.O. Multiple<br>G.G Dual                                                          |            |                                     | Packer Set At<br>4714                                                                |
| Producing Thru                                                                                                            |            | Reservoir Temp. °F<br>a             | Mean Annual Temp. °F                                                                 |
|                                                                                                                           |            | Baro. Press. - P <sub>a</sub><br>12 | State<br>New Mexico                                                                  |
| L                                                                                                                         | H          | Gg<br>.690                          | % CO <sub>2</sub> % N <sub>2</sub> % H <sub>2</sub> S    Prover    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 |
| SI        |                  |   |              |                 |                      |             | 924             |             | 930             |                  |          |
| 1.        |                  |   | .750         | 316             |                      | 75          | 316             |             | 633             |                  | 14 Days  |
| 2.        |                  |   |              |                 |                      |             |                 |             |                 |                  | 3 Hrs.   |
| 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 F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | 12.365                |                  | 328                     | 0.9859                | .9325                         | 1.033                                   | 3852                 |
| 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>r</sub> 942 | P <sub>r</sub> <sup>2</sup> 887364 | (1) $\frac{P_c^2}{P_r^2 - P_w^2} = \frac{887364}{471339} = 1.6072$ | (2) $\left[ \frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.6072$      |
| NO. 1              | P <sub>r</sub> 645                 | P <sub>w</sub> 416025                                              | P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> 471339 |
| 2                  |                                    |                                                                    |                                                                  |
| 3                  |                                    |                                                                    |                                                                  |
| 4                  |                                    |                                                                    |                                                                  |
| 5                  |                                    |                                                                    |                                                                  |

  

|                                       |  |                             |                                 |                    |
|---------------------------------------|--|-----------------------------|---------------------------------|--------------------|
| Absolute Open Flow 6191               |  | Mcfd @ 15.025               | Angle of Slope                  | Slope, n           |
| Remarks: *4.500 "Liner 3982' - 6928'. |  |                             |                                 |                    |
| Gas Vented During Test = 478 MCF      |  |                             |                                 |                    |
| Approved by Commission:               |  | Conducted By:<br>Don Norton | Calculated By:<br>Scott Lindsey | Checked By:<br>kld |