

## 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>6-11-81                |  |                                |            |
| Company<br>El Paso Natural Gas Company                                                                                    |              |                         |                   | Connection<br>El Paso Natural Gas Company |                    |                                     |  |                                |            |
| Pool<br>So. Blanco                                                                                                        |              |                         |                   | Formation<br>Pictured Cliffs              |                    |                                     |  | Unit<br>Lindrith               |            |
| Completion Date<br>5-23-81                                                                                                |              | Total Depth<br>3326     |                   | Plug Back TD<br>3308                      |                    | Elevation<br>7171 Gr                |  | Farm or Lease Name<br>Lindrith |            |
| Csg. Size<br>4.500                                                                                                        | Int.<br>10.5 | CD<br>4.052             | Set At<br>3326    | Perforations:<br>From 3167 To 3273        |                    | Well No.<br>#104                    |  |                                |            |
| Tub. Size<br>1.660                                                                                                        | Int.<br>2.4  | CD<br>1.380             | Set At<br>3262    | Perforations:<br>From To                  |                    | Unit<br>J                           |  | Sec.<br>18                     | Twp.<br>24 |
| Type Well - Single - Broadhead - G.C. or G.O. Multiple<br>Single                                                          |              |                         |                   |                                           |                    | Packer Set At                       |  | County<br>Rio Arriba           |            |
| Producing Thru                                                                                                            |              | Reservoir Temp. °F<br>θ |                   | Mean Annual Temp. °F                      |                    | Baro. Press. - P <sub>a</sub><br>12 |  | State<br>New Mexico            |            |
| L                                                                                                                         | H            | G <sub>g</sub>          | % CO <sub>2</sub> | % N <sub>2</sub>                          | % H <sub>2</sub> S | Prover                              |  | Meter Run                      | Taps       |

  

| FLOW DATA |                        |   |                 |                    |                         | TUBING DATA |                    | CASING DATA |                    | Duration<br>of<br>Flow |             |
|-----------|------------------------|---|-----------------|--------------------|-------------------------|-------------|--------------------|-------------|--------------------|------------------------|-------------|
| NO.       | Prover<br>Line<br>Size | X | Orifice<br>Size | Press.<br>p.s.i.g. | Diff.<br>h <sub>w</sub> | Temp.<br>°F | Press.<br>p.s.i.g. | Temp.<br>°F | Press.<br>p.s.i.g. |                        | Temp.<br>°F |
| SI        |                        |   |                 |                    |                         |             | 972                |             | 972                |                        | 7 Days      |
| 1.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |
| 2.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |
| 3.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |
| 4.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |
| 5.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |

  

| RATE OF FLOW CALCULATIONS |                          |                  |                            |                                        |                                     |                                               |                         |
|---------------------------|--------------------------|------------------|----------------------------|----------------------------------------|-------------------------------------|-----------------------------------------------|-------------------------|
| NO.                       | Coefficient<br>(24 Hour) | $\sqrt{h_w P_m}$ | Pressure<br>P <sub>m</sub> | Flow Temp.<br>Factor<br>F <sub>t</sub> | Gravity<br>Factor<br>F <sub>g</sub> | Super<br>Compress.<br>Factor, F <sub>sp</sub> | Rate of Flow<br>Q, Mcfd |
| 1.                        |                          |                  |                            |                                        |                                     |                                               |                         |
| 2.                        |                          |                  |                            |                                        |                                     |                                               |                         |
| 3.                        |                          |                  |                            |                                        |                                     |                                               |                         |
| 4.                        |                          |                  |                            |                                        |                                     |                                               |                         |
| 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 _____ X X X X X X X X X |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid _____ X X X X X         |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.        |
| 5.  |                |          |                |   | Critical Temperature _____ R _____ R                   |

  

| NO. | P <sub>r</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>r</sub> <sup>2</sup> | P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_r^2 - P_w^2} =$ _____ | (2) $\left[ \frac{P_c^2}{P_r^2 - P_w^2} \right]^n =$ _____ |
|-----|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------|-------------------------------------------|------------------------------------------------------------|
| 1.  |                             |                             |                             |                                                           |                                           |                                                            |
| 2.  |                             |                             |                             |                                                           |                                           |                                                            |
| 3.  |                             |                             |                             |                                                           |                                           |                                                            |
| 4.  |                             |                             |                             |                                                           |                                           |                                                            |
| 5.  |                             |                             |                             |                                                           |                                           |                                                            |

  

|                                        |  |  |  |                        |  |                |  |
|----------------------------------------|--|--|--|------------------------|--|----------------|--|
| Absolute Open Flow _____ Mcfd @ 15.025 |  |  |  | Angle of Slope θ _____ |  | Slope, n _____ |  |
| Remarks: _____                         |  |  |  |                        |  |                |  |

  

|                      |                       |                        |                     |
|----------------------|-----------------------|------------------------|---------------------|
| Approved by Division | Conducted by<br>_____ | Calculated by<br>_____ | Checked by<br>_____ |
|----------------------|-----------------------|------------------------|---------------------|