

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

Form C-122  
Revised 9-1

|                                                                                                                           |                         |                       |                                                       |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|-------------------------------------------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                         | Test Date<br>11-07-85 |                                                       |
| Company<br>El Paso Natural Gas                                                                                            |                         | Connection            |                                                       |
| Pool<br>Basin                                                                                                             |                         | Formation<br>Dakota   |                                                       |
| Completion Date<br>11-07-85                                                                                               |                         | Total Depth<br>7837   | Plug Back TD<br>7816                                  |
|                                                                                                                           |                         | Elevation<br>6365 GR  | Form or Lease Name<br>Howell D                        |
| Csg. Size<br>4.500                                                                                                        | wt.<br>10.5             | d<br>4.052            | Set At<br>7824                                        |
| Perforations:<br>From 7594                                                                                                | To 7774                 |                       | Well No.<br>#5E                                       |
| Trq. Size<br>1.900                                                                                                        | wt.<br>2.9              | d<br>1.610            | Set At<br>7779                                        |
| Perforations:<br>From                                                                                                     | To                      |                       | Unit<br>G 31 31                                       |
| Type Well - Single - Bradenhead - G.C. or G.O. Multiple                                                                   |                         |                       |                                                       |
| Packer Set At<br>None                                                                                                     |                         | County<br>San Juan    |                                                       |
| Producing Thru<br>Tbg.                                                                                                    | Reservoir Temp. °F<br>a | 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 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.        |                  |   |              |                 |                      |          | 480             |          | 1551            |          | 7 Days           |
| 2.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 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.                        |                       |                  |                         |                       |                               |                                         |                      |
| 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        | XXXXXX   |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid        | XXXXXX   |
| 4.  |                |          |                |   | Critical Pressure                     | P.S.I.A. |
| 5.  |                |          |                |   | Critical Temperature                  | R        |

  

| NO. | P <sub>r</sub> | P <sub>w</sub> | P <sub>a</sub> | P <sub>r</sub> - P <sub>w</sub> |
|-----|----------------|----------------|----------------|---------------------------------|
| 1.  |                |                |                |                                 |
| 2.  |                |                |                |                                 |
| 3.  |                |                |                |                                 |
| 4.  |                |                |                |                                 |
| 5.  |                |                |                |                                 |

  

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} =$

ACF = Q  $\left[ \frac{P_r^2}{P_c^2 - P_w^2} \right]^n$

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**OIL CON. DIV.**  
**DIST. 3**

(2)  $\left[ \frac{P_r^2}{P_c^2 - P_w^2} \right]^n =$

  

|                    |              |                |          |
|--------------------|--------------|----------------|----------|
| Absolute Open Flow | Mcf @ 15.025 | Angle of Slope | Slope, n |
| Remarks:           |              |                |          |

  

|                         |                                 |                           |                    |
|-------------------------|---------------------------------|---------------------------|--------------------|
| Approved by Commission: | Conducted By:<br>Bob Easterling | Calculated By:<br>Ed Mabe | Checked by:<br>kld |
|-------------------------|---------------------------------|---------------------------|--------------------|