

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

Form C-122  
Revised 9-1-65

**RECEIVED**  
JUL 22 1985  
DIV

|                                                                                                                           |            |                         |                     |                                    |                    |                                     |           |                                 |  |                                |  |
|---------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|---------------------|------------------------------------|--------------------|-------------------------------------|-----------|---------------------------------|--|--------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |            |                         |                     |                                    |                    | Test Date<br>7-17-85                |           |                                 |  |                                |  |
| Company<br>El Paso Natural Gas                                                                                            |            |                         |                     |                                    |                    | Connection                          |           |                                 |  |                                |  |
| Pool<br>Blanco                                                                                                            |            |                         |                     |                                    |                    | Formation<br>Pictured Cliffs        |           |                                 |  | Unit                           |  |
| Completion Date<br>7-17-85                                                                                                |            |                         | Total Depth<br>3150 |                                    |                    | Plug Back TD<br>3140                |           | Elevation<br>6246 GR            |  | Farm or Lease Name<br>Riddle E |  |
| Csg. Size<br>2.875                                                                                                        | Wt.<br>6.5 | d<br>2.441              | Set At<br>3150      | Perforations:<br>From 3024 To 3118 |                    |                                     |           | Well No.<br>#2                  |  |                                |  |
| Teg. Size                                                                                                                 | wt.        | d                       | Set At              | Perforations:<br>From To           |                    |                                     |           | Unit Sec. Twp. Rge.<br>D 4 30 9 |  |                                |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |            |                         |                     |                                    |                    | Packer Set At<br>None               |           | County<br>San Juan              |  |                                |  |
| Producing Thru<br>Csg.                                                                                                    |            | Reservoir Temp. °F<br>a |                     | Mean Annual Temp. °F               |                    | Baro. Press. - P <sub>a</sub><br>12 |           | State<br>New Mexico             |  |                                |  |
| L                                                                                                                         | H          | Gg                      | % CO <sub>2</sub>   | % N <sub>2</sub>                   | % H <sub>2</sub> S | Prover                              | Meter Run | Taps                            |  |                                |  |
| .670                                                                                                                      |            |                         |                     |                                    |                    |                                     |           |                                 |  |                                |  |

| 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         | 40              |                      | 74          |                 |             | 748             |                  | 7 Days   |
| 2.        |                  |   |              |                 |                      |             |                 |             | 40              |                  | 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 Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1.                        | 12.365                |                  | 52                      | .9868                 | .9463             | 1.008                       | 605                  |
| 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                   |

P<sub>r</sub> 760    P<sub>r</sub><sup>2</sup> 577600

| NO. | P <sub>r</sub> | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
|-----|----------------|----------------|-----------------------------|-----------------------------------------------------------|
| 1.  |                | 65             | 4225                        | 573375                                                    |
| 2.  |                |                |                             |                                                           |
| 3.  |                |                |                             |                                                           |
| 4.  |                |                |                             |                                                           |
| 5.  |                |                |                             |                                                           |

(1)  $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{577600}{573375}$       (2)  $\left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0063$

ACF = Q  $\left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 609$

|                                      |  |                        |              |
|--------------------------------------|--|------------------------|--------------|
| Absolute Open Flow 609 Mcfd @ 15.025 |  | Angle of Slope @ _____ | Slope, n .85 |
|--------------------------------------|--|------------------------|--------------|

Remarks: Produced mist of water throughout test. Gas vented during test.  
= 74 MCF.

|                         |                           |                        |                 |
|-------------------------|---------------------------|------------------------|-----------------|
| Approved by Commission: | Conducted By: Joe Golding | Calculated By: Ed Mabe | Checked By: kld |
|-------------------------|---------------------------|------------------------|-----------------|