

**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>8-11-80 |                      |
| Company<br>El Paso Natural Gas Company                                                                                    |  |                         |  | Connection<br>El Paso Natural Gas Company |                      |                      |
| Pool<br>So. Blanco                                                                                                        |  |                         |  | Formation<br>Pictured Cliff               |                      | Unit                 |
| Completion Date<br>7-28-80                                                                                                |  | Total Depth<br>5490     |  | Plug Back TD<br>5471                      |                      | Elevation<br>6252 GL |
| Csg. Size<br>7.000                                                                                                        |  | WI.<br>20.0             |  | d<br>6.456                                |                      | Set At<br>3193       |
| Thq. Size<br>1.660                                                                                                        |  | WI.<br>2.4              |  | d<br>1.380                                |                      | Set At<br>2926       |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>G.G. Dual                                                      |  |                         |  | Packer Set At                             |                      | County<br>San Juan   |
| Producing Thru<br>Csg.                                                                                                    |  | Reservoir Temp. °F<br>a |  | Mean Annual Temp. °F                      |                      | State<br>New Mexico  |
| L                                                                                                                         |  | H                       |  | Gg                                        |                      | % CO <sub>2</sub>    |
|                                                                                                                           |  |                         |  | 0.650                                     |                      | % 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        |                  |   |              |                 |                      |             | 482             |             | 481             |                  | 14 Days. |
| 1.        | Choke            |   | 0.750        | 99              |                      | 64          |                 |             | 100             |                  | 3 Hours  |
| 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 Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1                         | 12.365                |                  | 111                     | 0.9962               | 0.9608            | 1.010                       | 1327                 |
| 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 _____ XXXXXXXXXX  |
| 3   |                |          |                |   | Specific Gravity Flowing Fluid _____ XXXXXX      |
| 4   |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.  |
| 5   |                |          |                |   | Critical Temperature _____ R _____ R             |

  

| 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   | 12321          | 112            | 14884                       | 229152                                                    |
| 2   |                |                |                             |                                                           |
| 3   |                |                |                             |                                                           |
| 4   |                |                |                             |                                                           |
| 5   |                |                |                             |                                                           |

  

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0650$

ACF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1400$

(2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0549$

  

|                                                   |                               |                     |
|---------------------------------------------------|-------------------------------|---------------------|
| Absolute Open Flow _____ 1400 _____ Mcfd @ 15.025 | Angle of Slope $\theta$ _____ | Slope, n _____ 0.85 |
|---------------------------------------------------|-------------------------------|---------------------|

  

Remarks: \_\_\_\_\_ 168 MCF Gas Was Produced During The Test.

  

|                         |                                  |                                 |             |
|-------------------------|----------------------------------|---------------------------------|-------------|
| Approved By Commission: | Conducted By:<br>Norman Waggoner | Calculated By:<br>H.E. McAnally | Checked By: |
|-------------------------|----------------------------------|---------------------------------|-------------|