

**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><b>05 14 80</b> |                                                              |
| Company<br><b>AMCO PRODUCTION CO.</b>                                                                                     |                    |                            |                       | Connection<br><b>ELPASO NATURAL GAS COMPANY</b>   |                              |                                                              |
| Pool<br><b>BASIN</b>                                                                                                      |                    |                            |                       | Formation<br><b>DAKOTA</b>                        |                              | Unit                                                         |
| Completion Date<br><b>03 29 80</b>                                                                                        |                    | Total Depth<br><b>6391</b> |                       | Plug Back TD<br><b>6366</b>                       |                              | Elevation<br><b>5595 GL</b>                                  |
| Csg. Size<br><b>4.500</b>                                                                                                 | Wt.<br><b>11.6</b> | d<br><b>4.000</b>          | Set At<br><b>6391</b> | Perforations:<br>From <b>6103</b> To <b>6216</b>  |                              | Well No.<br><b>1E</b>                                        |
| Tbg. Size<br><b>2.375</b>                                                                                                 | Wt.<br><b>4.7</b>  | d<br><b>1.995</b>          | Set At<br><b>6228</b> | Perforations:<br>From <b>open</b> To <b>ended</b> |                              | Unit    Sec.    Twp.    Rge.<br><b>L    15    29N    12W</b> |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br><b>SINGLE</b>                                                  |                    |                            |                       | Packer Set At<br><b>NONE</b>                      |                              | County<br><b>SAN JUAN</b>                                    |
| Producing Thru<br><b>TUBING</b>                                                                                           |                    | Reservoir Temp. *F<br>@    |                       | Mean Annual Temp. *F                              |                              | State<br><b>NEW MEXICO</b>                                   |
| L                                                                                                                         | H                  | Gg                         | % CO <sub>2</sub>     | % N <sub>2</sub>                                  | % H <sub>2</sub> S           | Prover    Meter Run    Tape                                  |

  

| 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        | <b>8 days</b>    |             |              |                 |                      |             | <b>842</b>      |             | <b>844</b>      |                  | <b>3 hrs</b> |
| 1.        | <b>2.375</b>     | <b>.750</b> |              |                 |                      |             | <b>18</b>       |             | <b>142</b>      |                  |              |
| 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                         | <b>12.365</b>         |                  | <b>30</b>               | <b>1.000</b>         | <b>.9258</b>      | <b>1.004</b>                | <b>345</b>           |
| 2.                        |                       |                  |                         |                      |                   |                             |                      |
| 3.                        |                       |                  |                         |                      |                   |                             |                      |
| 4.                        |                       |                  |                         |                      |                   |                             |                      |
| 5.                        |                       |                  |                         |                      |                   |                             |                      |

  

| NO. | P <sub>t</sub> | Temp. *R | T <sub>t</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 |
| 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>c</sub> <b>856</b> | P <sub>c</sub> <sup>2</sup> <b>732736</b> |                |                             |                                                           |
|---------------------------|-------------------------------------------|----------------|-----------------------------|-----------------------------------------------------------|
| NO.                       | P <sub>t</sub> <sup>2</sup>               | 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                         |                                           | <b>154</b>     | <b>23716</b>                | <b>709020</b>                                             |
| 2.                        |                                           |                |                             |                                                           |
| 3.                        |                                           |                |                             |                                                           |
| 4.                        |                                           |                |                             |                                                           |
| 5.                        |                                           |                |                             |                                                           |

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{\underline{1.0334}}$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{\underline{354}}$

(2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{\underline{1.0250}}$

**354** Mcfd @ 15.025    Angle of Slope  $\theta$  \_\_\_\_\_

**RECEIVED**  
**JUN 13 1980**  
**OIL CON. COM.**  
**Dist. 3**

|                         |  |                             |                                      |                                    |
|-------------------------|--|-----------------------------|--------------------------------------|------------------------------------|
| Approved By Commission: |  | Conducted By:<br><b>JJB</b> | Calculated By:<br><b>J J BARNETT</b> | Checked By:<br><b>R. A. DOWNEY</b> |
|-------------------------|--|-----------------------------|--------------------------------------|------------------------------------|