

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><b>02 21 80</b>                                   |           |                                               |  |
| Company<br><b>AMOCO PRODUCTION COMPANY</b>                                                                                |                    |                                |                       | Connection<br><b>EL PASO NATURAL GAS COMPANY</b> |                    |                                                                |           |                                               |  |
| Pool<br><b>BASIN</b>                                                                                                      |                    |                                |                       | Formation<br><b>DAKOTA</b>                       |                    |                                                                |           | Unit                                          |  |
| Completion Date<br><b>01 28 80</b>                                                                                        |                    | Total Depth<br><b>6552</b>     |                       | Plug Back TD<br><b>6516</b>                      |                    | Elevation<br><b>5535 GL</b>                                    |           | Farm or Lease Name<br><b>MADDOX GAS COM C</b> |  |
| Csq. Size<br><b>4.500</b>                                                                                                 | Wt.<br><b>11.6</b> | d<br><b>4.000</b>              | Set At<br><b>6552</b> | Perforations<br>From <b>6315</b> To <b>6442</b>  |                    | Well No.<br><b>1E</b>                                          |           |                                               |  |
| Thq. Size<br><b>2.375</b>                                                                                                 | Wt.<br><b>4.7</b>  | d<br><b>1.995</b>              | Set At<br><b>6436</b> | Perforations<br>From <b>open</b> To <b>ended</b> |                    | Unit    Sec.    Twp.    Rge.<br><b>P    27    29 N    10 W</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><b>6</b> |                       | Mean Annual Temp. °F                             |                    | Baro. Press. - P <sub>a</sub>                                  |           | 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 | 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        | <b>14 days</b>   |             |              |                 |                      |             | <b>925</b>      |             | <b>910</b>      |                  | <b>3 hrs</b> |
| 1.        | <b>2.375</b>     | <b>.750</b> |              |                 |                      |             | <b>14</b>       |             | <b>265</b>      |                  |              |
| 2.        |                  |             |              |                 |                      |             |                 |             |                 |                  |              |
| 3.        |                  |             |              |                 |                      |             |                 |             |                 |                  |              |
| 4.        |                  |             |              |                 |                      |             |                 |             |                 |                  |              |
| 5.        |                  |             |              |                 |                      |             |                 |             |                 |                  |              |

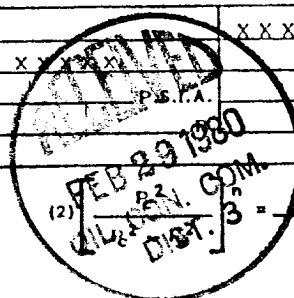
  

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                       |                   |                             |                      |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------|-----------------------------|----------------------|
| 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 O, Mcfd |
| 1                         | <b>12.365</b>         |                  | <b>26</b>               | <b>1.000</b>          | <b>.9258</b>      | <b>1.003</b>                | <b>299</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 _____ XXXXXXXXXX  |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid _____ X           |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A.                 |
| 5.  |                |          |                |   | Critical Temperature _____ R                     |

|                                                                     |                             |                |                             |                                                           |                                                                                       |
|---------------------------------------------------------------------|-----------------------------|----------------|-----------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------|
| P <sub>c</sub> <b>937</b> P <sub>c</sub> <sup>2</sup> <b>877969</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>277</b>     | <b>76729</b>                | <b>801240</b>                                             |                                                                                       |
| 2                                                                   |                             |                |                             |                                                           |                                                                                       |
| 3                                                                   |                             |                |                             |                                                           |                                                                                       |
| 4                                                                   |                             |                |                             |                                                           |                                                                                       |
|                                                                     |                             |                |                             |                                                           | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.0958}$                                |
|                                                                     |                             |                |                             |                                                           | (2) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.0710}$                                |
|                                                                     |                             |                |                             |                                                           | AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{320}$              |

|                                             |  |                             |  |                                 |  |
|---------------------------------------------|--|-----------------------------|--|---------------------------------|--|
| Absolute Open Flow <b>320</b> Mcfd @ 15.025 |  | Angle of Slope $\phi$ _____ |  | Slope, n <b>.75</b>             |  |
| Remarks: _____                              |  |                             |  |                                 |  |
| Approved by Division                        |  | Conducted By: <b>JJB</b>    |  | Checked By: <b>B E FACKRELL</b> |  |