

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>03 18 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>12 29 79</b>                                                                                        |                    | Total Depth<br><b>6992</b>     |                       | Plug Back TD<br><b>6971</b>                       |                    | Elevation<br><b>5672 GL</b>                                |           | Farm or Lease Name<br><b>Chavez Gas Com D</b> |  |
| Coq. Size<br><b>4.500</b>                                                                                                 | Wt.<br><b>11.6</b> | d<br><b>4.000</b>              | Set At<br><b>6992</b> | Perforations:<br>From <b>6676</b> To <b>6927</b>  |                    | Well No.<br><b>1E</b>                                      |           |                                               |  |
| Tub. Size<br><b>2.375</b>                                                                                                 | Wt.<br><b>4.7</b>  | d<br><b>1.995</b>              | Set At<br><b>6351</b> | Perforations:<br>From <b>open</b> To <b>ended</b> |                    | Unit    Sec.    Twp.    Rge.<br><b>J    3    29N    9W</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>#</b> |                       | Mean Annual Temp. °F                              |                    | Baro. Press. - P <sub>a</sub>                              |           | State<br><b>New Mexico</b>                    |  |
| L                                                                                                                         | H                  | Cq                             | % 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.        | <b>7 days</b>    |             |              |                 |                      |             | <b>1460</b>     |             | <b>1540</b>     |                  | <b>3 hrs</b> |
| 2.        | <b>2.375</b>     | <b>.750</b> |              |                 |                      |             | <b>17</b>       |             | <b>262</b>      |                  |              |
| 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.                        | <b>12.365</b>         |                  | <b>29</b>               | <b>1.000</b>          | <b>.925</b>                   | <b>1.004</b>                            | <b>333</b>           |
| 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 _____ XXXXX       |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.  |
| 5.  |                |          |                |   | Critical Temperature _____ R _____ R             |

  

|                                                                       |                             |                |                             |                                                                                                                                    |  |
|-----------------------------------------------------------------------|-----------------------------|----------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------|--|
| P <sub>c</sub> <b>1552</b> P <sub>c</sub> <sup>2</sup> <b>2408704</b> |                             |                |                             | $(1) \frac{P_c^2}{P_r^2 - P_w^2} = \underline{1.0322} \quad (2) \left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n = \underline{1.0240}$ |  |
| NO.                                                                   | P <sub>r</sub> <sup>2</sup> | 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.                                                                    |                             | <b>274</b>     | <b>75076</b>                | <b>2333628</b>                                                                                                                     |  |
| 2.                                                                    |                             |                |                             |                                                                                                                                    |  |
| 3.                                                                    |                             |                |                             |                                                                                                                                    |  |
| 4.                                                                    |                             |                |                             |                                                                                                                                    |  |
| 5.                                                                    |                             |                |                             |                                                                                                                                    |  |

  

|                                                                          |  |                        |
|--------------------------------------------------------------------------|--|------------------------|
| $AOF = Q \left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n = \underline{341}$ |  |                        |
| Absolute Open Flow <b>341</b>                                            |  | Angle of Slope @ _____ |
| Remarks: _____                                                           |  |                        |

  

|                      |                             |                                      |                                    |
|----------------------|-----------------------------|--------------------------------------|------------------------------------|
| Approved By Division | Conducted By:<br><b>JJB</b> | Calculated By:<br><b>J J BARNETT</b> | Checked By:<br><b>B E FACKRELL</b> |
|----------------------|-----------------------------|--------------------------------------|------------------------------------|