

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

Form C-122  
Revised 9-1-65

|                                                                                                                        |                 |                             |                    |                                                |                           |                                                            |
|------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------|--------------------|------------------------------------------------|---------------------------|------------------------------------------------------------|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                 |                             |                    |                                                | Test Date <b>07 11 80</b> |                                                            |
| Company <b>AMOCO PRODUCTION CO.</b>                                                                                    |                 |                             |                    | Connection <b>EL PASO NATURAL GAS CO.</b>      |                           |                                                            |
| Pool <b>BASIN</b>                                                                                                      |                 |                             |                    | Formation <b>DAKOTA</b>                        |                           | Unit                                                       |
| Completion Date <b>06 20 80</b>                                                                                        |                 | Total Depth <b>6169</b>     |                    | Plug Back TD <b>6122</b>                       |                           | Elevation <b>5610GL</b>                                    |
| Form or Lease Name <b>GALLEGOS CANYON UNIT</b>                                                                         |                 |                             |                    |                                                |                           |                                                            |
| Csg. Size <b>4.500</b>                                                                                                 | Wt. <b>11.6</b> | d <b>4.000</b>              | Set At <b>6169</b> | Perforations: From <b>5910</b> To <b>6042</b>  |                           | Well No. <b>229E</b>                                       |
| Tbg. Size <b>2.375</b>                                                                                                 | Wt. <b>4.7</b>  | d <b>1.995</b>              | Set At <b>6069</b> | Perforations: From <b>open</b> To <b>ended</b> |                           | Unit <b>I</b> Sec. <b>21</b> Twp. <b>28</b> Rge. <b>12</b> |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple <b>SINGLE</b>                                                  |                 |                             |                    | Packer Set At <b>NONE</b>                      |                           | County <b>SAN JUAN</b>                                     |
| Producing thru <b>TUBING</b>                                                                                           |                 | Reservoir Temp. °F <b>θ</b> |                    | Mean Annual Temp. °F                           |                           | State <b>NEW MEXICO</b>                                    |
| L                                                                                                                      | H               | Gg                          | % CO <sub>2</sub>  | % H <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>11 days</b>   |             |              |                 |                      |             | <b>1141</b>     |             | <b>1154</b>     |                  | <b>3 hrs</b> |
| 1.        | <b>2.375</b>     | <b>.750</b> |              |                 |                      |             | <b>183</b>      | <b>60</b>   | <b>725</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>195</b>              | <b>1.000</b>         | <b>.9258</b>      | <b>1.022</b>               | <b>2281</b>          |
| 2.                        |                       |                  |                         |                      |                   |                            |                      |
| 3.                        |                       |                  |                         |                      |                   |                            |                      |
| 4.                        |                       |                  |                         |                      |                   |                            |                      |
| 5.                        |                       |                  |                         |                      |                   |                            |                      |

  

| NO. | P <sub>f</sub> | Temp. °R | T <sub>f</sub> | Z | Gas Liquid Hydrocarbon Ratio | A.P.I. Gravity of Liquid Hydrocarbons | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure | Critical Temperature |
|-----|----------------|----------|----------------|---|------------------------------|---------------------------------------|--------------------------------|--------------------------------|-------------------|----------------------|
| 1   |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 2.  |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 3.  |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 4.  |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 5.  |                |          |                |   |                              |                                       |                                |                                |                   |                      |

  

| P <sub>c</sub> <b>1166</b> | P <sub>c</sub> <sup>2</sup> <b>1359556</b> |                |                             |                                                           |
|----------------------------|--------------------------------------------|----------------|-----------------------------|-----------------------------------------------------------|
| NO.                        | P <sub>f</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>737</b>     | <b>543169</b>               | <b>816387</b>                                             |
| 2.                         |                                            |                |                             |                                                           |
| 3.                         |                                            |                |                             |                                                           |
| 4.                         |                                            |                |                             |                                                           |
| 5.                         |                                            |                |                             |                                                           |

  

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = \mathbf{1.6653}$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \mathbf{3344}$

(2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \mathbf{1.4660}$

  

|                                              |                         |                     |
|----------------------------------------------|-------------------------|---------------------|
| Absolute Open Flow <b>3344</b> Mcfd @ 15.025 | Angle of Slope $\theta$ | Slope, n <b>.75</b> |
| Remarks:                                     |                         |                     |

  

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