

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>07 29 80</b>  |                  |                                                |                   |
| Company<br><b>AMOCO PRODUCTION CO.</b>                                                                                    |                    |                                |                       | Connection<br><b>EL PASO NATURAL GAS CO.</b>      |                    |                               |                  |                                                |                   |
| Pool<br><b>BASIN</b>                                                                                                      |                    |                                |                       | Formation<br><b>DAKOTA</b>                        |                    |                               |                  | Unit                                           |                   |
| Completion Date<br><b>06 26 80</b>                                                                                        |                    | Total Depth<br><b>6663</b>     |                       | Plug Back TD<br><b>6620</b>                       |                    | Elevation<br><b>5549 GL</b>   |                  | Farm or Lease Name<br><b>SAMMONS GAS COM C</b> |                   |
| Csg. Size<br><b>4.500</b>                                                                                                 | Wt.<br><b>10.5</b> | d<br><b>4.052</b>              | Set At<br><b>6663</b> | Perforations:<br>From <b>6410</b> To <b>6577</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>6566</b> | Perforations:<br>From <b>OPEN</b> To <b>ENDED</b> |                    | Unit<br><b>P</b>              | Sec.<br><b>7</b> | Twp.<br><b>29N</b>                             | Rge.<br><b>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>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>9 days</b>    |             |              |                 |                      |          | <b>1285</b>     |          | <b>1255</b>     |          | <b>1 hr</b>      |
| 1.        | <b>2.375</b>     | <b>.750</b> |              |                 |                      |          | <b>14</b>       |          | <b>87</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>26</b>               | <b>1.000</b>         | <b>.9258</b>      | <b>1.003</b>                | <b>299</b>           |
| 2.                        |                       |                  |                         |                      |                   |                             |                      |
| 3.                        |                       |                  |                         |                      |                   |                             |                      |
| 4.                        |                       |                  |                         |                      |                   |                             |                      |
| 5.                        |                       |                  |                         |                      |                   |                             |                      |

  

|     |                |          |                |   |                                       |                 |
|-----|----------------|----------|----------------|---|---------------------------------------|-----------------|
| NO. | P <sub>r</sub> | Temp. *R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio          | Mcft/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 X X X |
| 4.  |                |          |                |   | Critical Pressure                     | P.S.I.A.        |
| 5.  |                |          |                |   | Critical Temperature                  | R               |

  
  

|                            |                                            |                             |                                                           |                                                        |                                                                         |
|----------------------------|--------------------------------------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------|
| P <sub>c</sub> <b>1297</b> | P <sub>c</sub> <sup>2</sup> <b>1682209</b> |                             |                                                           | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.0059}$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.0044}$ |
| NO.                        | 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>99</b>                                  | <b>9801</b>                 | <b>1672408</b>                                            |                                                        |                                                                         |
| 2                          |                                            |                             |                                                           |                                                        |                                                                         |
| 3                          |                                            |                             |                                                           |                                                        |                                                                         |
| 4                          |                                            |                             |                                                           |                                                        |                                                                         |
| 5                          |                                            |                             |                                                           |                                                        |                                                                         |

  

$AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{300}$

  

|                               |              |                         |                     |
|-------------------------------|--------------|-------------------------|---------------------|
| Absolute Open Flow <b>300</b> | Mcf @ 15.025 | Angle of Slope $\theta$ | Slope, n <b>.75</b> |
|-------------------------------|--------------|-------------------------|---------------------|

  

Remarks:

  

|                        |                            |                                     |                                 |
|------------------------|----------------------------|-------------------------------------|---------------------------------|
| 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> |
|------------------------|----------------------------|-------------------------------------|---------------------------------|