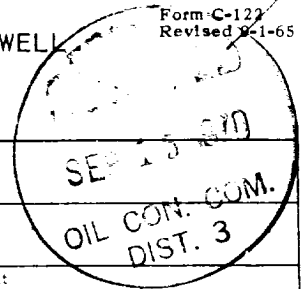


NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 8-1-65



|                                                                                                                        |  |                             |  |                          |  |                                         |  |
|------------------------------------------------------------------------------------------------------------------------|--|-----------------------------|--|--------------------------|--|-----------------------------------------|--|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                             |  |                          |  | Test Date <b>9/10/70</b>                |  |
| Company <b>SOUTHERN UNION PRODUCTION CO. EL PASO NATURAL GAS COMPANY</b>                                               |  |                             |  |                          |  | Connection                              |  |
| Pool <b>BASIN</b>                                                                                                      |  |                             |  |                          |  | Formation <b>DAKOTA</b>                 |  |
| Completion Date <b>8/23/70</b>                                                                                         |  | Total Depth <b>7015</b>     |  | Plug Back TD <b>6988</b> |  | Elevation <b>6636</b>                   |  |
| Casing Size <b>5.500</b>                                                                                               |  | WT. <b>15.50</b>            |  | ID <b>4.950</b>          |  | Set At <b>7013</b>                      |  |
| Perforations: From <b>6892</b> To <b>6968</b>                                                                          |  | Well No. <b>1</b>           |  |                          |  |                                         |  |
| Tub. Size <b>2.0625</b>                                                                                                |  | WT. <b>3.25</b>             |  | ID <b>1.750</b>          |  | Set At <b>6907</b>                      |  |
| Perforations: From <b>6899</b> To <b>6907</b>                                                                          |  | Unit <b>K</b>               |  | Sec. <b>4</b>            |  | Twp. <b>24N</b>                         |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple                                                                |  | Packer Set At <b>6735</b>   |  | County <b>RIO ARriba</b> |  |                                         |  |
| Producing Thru <b>TUBING</b>                                                                                           |  | Reservoir Temp. °F <b>@</b> |  | Mean Annual Temp. °F     |  | Baro. Press. - P <sub>a</sub> <b>12</b> |  |
| State <b>NEW MEXICO</b>                                                                                                |  |                             |  |                          |  |                                         |  |
| L <b>6889</b>                                                                                                          |  | H                           |  | G <sub>g</sub>           |  | % 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         | 2"               |   | 3/4"         |                 |                      |          | 1959            |          |                 |          | 8 DAYS           |
| 2         |                  |   |              |                 |                      |          | 354             | 670      |                 |          | 3 HOURS          |
| 3         |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 4         |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 5         |                  |   |              |                 |                      |          |                 |          |                 |          |                  |

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                                  |                               |                                        |                              |
|---------------------------|-----------------------|------------------|-------------------------|----------------------------------|-------------------------------|----------------------------------------|------------------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor F <sub>t</sub> | Gravity Factor F <sub>g</sub> | Super Compress. Factor F <sub>cv</sub> | Rate of Flow q <sub>sc</sub> |
| 1                         | 12.3650               |                  | 366                     | 0.9933                           | 0.9258                        | 1.042                                  | 4,337                        |
| 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 _____ 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>1971</b> | P <sub>c</sub> <sup>2</sup> <b>3,884,841</b> |                |                             | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3999$                | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2869$ |
| NO.                        | P <sub>c</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                          | 133,956                                      |                | 1,109,783                   | 2,775,058                                                 |                                                             |
| 2                          |                                              |                |                             |                                                           |                                                             |
| 3                          |                                              |                |                             |                                                           |                                                             |
| 4                          |                                              |                |                             |                                                           |                                                             |
| 5                          |                                              |                |                             |                                                           |                                                             |

|                                                                |  |  |  |
|----------------------------------------------------------------|--|--|--|
| AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.581$ |  |  |  |
|----------------------------------------------------------------|--|--|--|

|                                 |                |                             |                      |
|---------------------------------|----------------|-----------------------------|----------------------|
| Absolute Open Flow <b>5.581</b> | Mcf/d @ 15.025 | Angle of Slope $\phi$ _____ | Slope, m <b>0.75</b> |
|---------------------------------|----------------|-----------------------------|----------------------|

|                |  |  |  |
|----------------|--|--|--|
| Remarks: _____ |  |  |  |
|----------------|--|--|--|

|                               |                                       |                                        |                                     |
|-------------------------------|---------------------------------------|----------------------------------------|-------------------------------------|
| Approved By Commission: _____ | Conducted By: <b>KENNETH E. RODDY</b> | Calculated By: <b>KENNETH E. RODDY</b> | Checked By: <b>KENNETH E. RODDY</b> |
|-------------------------------|---------------------------------------|----------------------------------------|-------------------------------------|