

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

Form C-122  
Revised 9-1-65

**RECEIVED**

|                                                                                                                           |              |                         |                   |                                          |                       |                                     |                                            |                                     |            |
|---------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------|-------------------|------------------------------------------|-----------------------|-------------------------------------|--------------------------------------------|-------------------------------------|------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |              |                         |                   |                                          | Test Date<br>9/26/68  |                                     | SEP 30 1968<br><br>OIL CON. COM<br>DIST. 3 |                                     |            |
| Company<br>SOUTHERN UNION PRODUCTION CO.                                                                                  |              |                         |                   | Connection<br>SOUTHERN UNION GAS COMPANY |                       |                                     |                                            |                                     |            |
| Pool<br>TAPACITO                                                                                                          |              |                         |                   | Formation<br>PICTURED CLIFFS             |                       |                                     |                                            |                                     |            |
| Completion Date<br>8/29/68                                                                                                |              | Total Depth<br>8045     |                   | Plug Back TD<br>8004                     |                       | Elevation<br>6941                   |                                            | Farm or Lease Name<br>JICARILLA "A" |            |
| Csg. Size<br>7.625                                                                                                        | Wt.<br>26.40 | d<br>6.969              | Set At<br>3796    | Perforations:<br>From 3556 To 3584       |                       | Well No.<br>10                      |                                            |                                     |            |
| Tbg. Size<br>1.900                                                                                                        | Wt.<br>2.75  | d<br>1.610              | Set At<br>3551    | Perforations:<br>From 3543 To 3551       |                       | Unit<br>U                           | Sec.<br>23                                 | Twp.<br>26N                         | Rge.<br>4E |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>DUAL - GAS - GAS                                               |              |                         |                   |                                          | Packer Set At<br>7696 |                                     | County<br>RIO ARRIEA                       |                                     |            |
| Producing Thru<br>TUBING                                                                                                  |              | Reservoir Temp. °F<br>@ |                   | Mean Annual Temp. °F                     |                       | Baro. Press. - P <sub>a</sub><br>12 |                                            | State<br>NEW MEXICO                 |            |
| L<br>3531                                                                                                                 | H            | Gg<br>.700              | % 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        | 2"               |   | 3/4"         |                 |                      |             | 601             |             | 599             |                  | 24 DAYS  |
| 1.        |                  |   |              |                 |                      |             | 166             | 580         | 557             |                  | 3 HOURS  |
| 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                         | 12.3650               |                  | 178                     | 1.0019                | .9258             | 1.021                        | 2.084                |
| 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> 613 | P <sub>c</sub> <sup>2</sup> 375,769 | (1) $\frac{P_c^2}{P_c^2 - R_w^2} = 7.2252$ | (2) $\left[ \frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 5.2705$ |
| NO.                | P <sub>t</sub> <sup>2</sup>         | P <sub>w</sub>                             | R <sub>w</sub> <sup>2</sup>                                 |
| 1                  |                                     | 569                                        | 323,761                                                     |
| 2                  |                                     |                                            |                                                             |
| 3                  |                                     |                                            |                                                             |
| 4                  |                                     |                                            |                                                             |
| 5                  |                                     |                                            |                                                             |

  

|                                                                                                                           |  |                        |              |
|---------------------------------------------------------------------------------------------------------------------------|--|------------------------|--------------|
| Absolute Open Flow 11,192 Mcfd @ 15.025                                                                                   |  | Angle of Slope @ _____ | Slope, n .85 |
| Remarks: _____                                                                                                            |  |                        |              |
| Approved By Commission: _____ Conducted By: WAYNE WAPBINGTON Calculated By: KENNETH E. BOBBY Checked By: KENNETH E. BOBBY |  |                        |              |