

**NEW MEXICO OIL CONSERVATION COMMISSION  
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122  
Revised 12-1-55

|                                                     |                     |                      |                               |                          |                                                                       |                                 |                      |  |
|-----------------------------------------------------|---------------------|----------------------|-------------------------------|--------------------------|-----------------------------------------------------------------------|---------------------------------|----------------------|--|
| Pool<br><b>BLANCO</b>                               |                     |                      | Formation<br><b>MESAVERDE</b> |                          |                                                                       | County<br><b>SAN JUAN</b>       |                      |  |
| Initial                                             |                     | Annual               |                               | Special<br><b>X</b>      |                                                                       | Date of Test<br><b>10/26/65</b> |                      |  |
| Company<br><b>SOUTHERN UNION PRODUCTION COMPANY</b> |                     |                      |                               | Lease<br><b>NORDHAUS</b> |                                                                       |                                 | Well No.<br><b>3</b> |  |
| Unit<br><b>A</b>                                    | Sec.<br><b>11</b>   | Twp.<br><b>31-N</b>  | Range<br><b>9-W</b>           |                          | Purchaser<br><b>SOUTHERN UNION GAS COMPANY</b>                        |                                 |                      |  |
| Casing<br><b>5-1/2</b>                              | Wt.<br><b>15.5</b>  | I.D.<br><b>4.995</b> | Set at<br><b>5586</b>         |                          | Perf.<br><b>5092</b>                                                  | To<br><b>5506</b>               |                      |  |
| Tubing<br><b>2-3/8</b>                              | Wt.<br><b>4.7</b>   | I.D.<br><b>2.0</b>   | Set at<br><b>5504</b>         |                          | Perf.<br><b>5474</b>                                                  | To                              |                      |  |
| Gas Pay:                                            | From<br><b>5092</b> | To<br><b>5506</b>    | L<br><b>5474</b>              | G<br><b>0.670</b>        | GL<br><b>3668</b>                                                     | Bar. Press.<br><b>12.0</b>      |                      |  |
| Producing Through:                                  |                     | Casing               | Tubing<br><b>X</b>            |                          | Type Well — Single — Braden head — G.G. or G.O. Dual<br><b>SINGLE</b> |                                 |                      |  |
| Date of Completion<br><b>MAY 26, 1957</b>           |                     | Packer<br><b>—</b>   |                               |                          | Reservoir Temp.<br><b>—</b>                                           |                                 |                      |  |

**OBSERVED DATA**

| Tested Through: Prover <input type="checkbox"/> Choke <input checked="" type="checkbox"/> Meter <input type="checkbox"/> |                            |                                    |                 |                         |              |                 |              | Type of Taps    |              |                            |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|-----------------|-------------------------|--------------|-----------------|--------------|-----------------|--------------|----------------------------|
| FLOW DATA                                                                                                                |                            |                                    |                 |                         |              | TUBING DATA     |              | CASING DATA     |              | DURATION<br>OF FLOW<br>HR. |
| No.                                                                                                                      | (Prover)<br>(Line)<br>Size | (Choke)<br><del>XXXX</del><br>Size | Press.<br>psig. | Diff.<br>h <sub>w</sub> | Temp.<br>°F. | Press.<br>psig. | Temp.<br>°F. | Press.<br>psig. | Temp.<br>°F. |                            |
| 1.                                                                                                                       |                            |                                    |                 |                         |              | <b>546</b>      |              | <b>539</b>      |              | <b>9 DAY</b>               |
| 2.                                                                                                                       |                            | <b>3/4</b>                         | <b>89</b>       | <b>—</b>                | <b>69</b>    | <b>89</b>       |              | <b>337</b>      |              | <b>3 HR.</b>               |
| 3.                                                                                                                       |                            |                                    |                 |                         |              |                 |              |                 |              |                            |
| 4.                                                                                                                       |                            |                                    |                 |                         |              |                 |              |                 |              |                            |
| 5.                                                                                                                       |                            |                                    |                 |                         |              |                 |              |                 |              |                            |
| 6.                                                                                                                       |                            |                                    |                 |                         |              |                 |              |                 |              |                            |

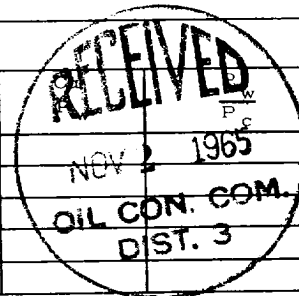
**FLOW CALCULATIONS**

| No. | Coefficient<br>(24 Hour) | $\sqrt{h_w p_f}$ | Pressure<br>psia | Flow Temp.<br>Factor<br>F <sub>t</sub> | Gravity<br>Factor<br>F <sub>g</sub> | Compress.<br>Factor<br>F <sub>pv</sub> | Rate of Flow Q-MCF P.D.<br>@ 15.025 psia |
|-----|--------------------------|------------------|------------------|----------------------------------------|-------------------------------------|----------------------------------------|------------------------------------------|
| 1.  | <b>12.3650</b>           |                  | <b>101</b>       | <b>0.9915</b>                          | <b>0.9463</b>                       | <b>1.011</b>                           | <b>1,185</b>                             |
| 2.  |                          |                  |                  |                                        |                                     |                                        |                                          |
| 3.  |                          |                  |                  |                                        |                                     |                                        |                                          |
| 4.  |                          |                  |                  |                                        |                                     |                                        |                                          |
| 5.  |                          |                  |                  |                                        |                                     |                                        |                                          |

**PRESSURE CALCULATIONS**

Gas-Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.      Specific Gravity Separator Gas \_\_\_\_\_  
 Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.      Specific Gravity Flowing Fluid \_\_\_\_\_  
 F<sub>e</sub> \_\_\_\_\_ (1-e<sup>-S</sup>) \_\_\_\_\_      P<sub>c</sub> **551**      P<sub>c</sub><sup>2</sup> **303601**

| No. | P <sub>w</sub><br>psia | P <sub>t</sub> <sup>2</sup> | F <sub>c</sub> Q | (F <sub>c</sub> Q) <sup>2</sup> | (F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-S</sup> ) | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
|-----|------------------------|-----------------------------|------------------|---------------------------------|------------------------------------------------------|-----------------------------|-----------------------------------------------------------|
| 1.  | <b>349</b>             |                             |                  |                                 |                                                      | <b>121,801</b>              | <b>181,800</b>                                            |
| 2.  |                        |                             |                  |                                 |                                                      |                             |                                                           |
| 3.  |                        |                             |                  |                                 |                                                      |                             |                                                           |
| 4.  |                        |                             |                  |                                 |                                                      |                             |                                                           |
| 5.  |                        |                             |                  |                                 |                                                      |                             |                                                           |



ABSOLUTE POTENTIAL: **1,740** \_\_\_\_\_ MCFPD; n **.75** \_\_\_\_\_

COMPANY **SOUTHERN UNION PRODUCTION COMPANY**      WITNESSED **BENNY E. BECHTOL**

ADDRESS **P. O. Box 808, FARMINGTON, N. Mex.**      COMPANY \_\_\_\_\_

AGENT AND TITLE **BENNY E. BECHTOL, PETROLEUM ENGINEER**