

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

Form C-122

Revised 12-1-55

|                                                 |                     |                         |                            |                  |                                                 |                                                                             |                   |                                      |
|-------------------------------------------------|---------------------|-------------------------|----------------------------|------------------|-------------------------------------------------|-----------------------------------------------------------------------------|-------------------|--------------------------------------|
| Pool<br><b>Basin</b>                            |                     |                         | Formation<br><b>Dakota</b> |                  |                                                 | County<br><b>San Juan</b>                                                   |                   |                                      |
| Initial<br><b>XX</b>                            |                     | Annual                  |                            | Special          |                                                 | Date of Test<br><b>10/17/67</b>                                             |                   |                                      |
| Company<br><b>Southern Union Production Co.</b> |                     |                         | Lease<br><b>Newsom "A"</b> |                  |                                                 | Well No.<br><b>5</b>                                                        |                   |                                      |
| Unit<br><b>M</b>                                | Sec.<br><b>3</b>    | Twp.<br><b>26 North</b> | Range<br><b>8 West</b>     |                  | Purchaser<br><b>El Paso Natural Gas Company</b> |                                                                             |                   |                                      |
| Casing<br><b>4.500</b>                          | Wt.<br><b>10.50</b> | I.D.<br><b>4.052</b>    | Set at<br><b>7448</b>      |                  | Perf.<br><b>7195</b>                            |                                                                             | To<br><b>7403</b> |                                      |
| Tubing<br><b>1.900</b>                          | Wt.<br><b>2.90</b>  | I.D.<br><b>1.610</b>    | Set at<br><b>7311</b>      |                  | Perf.<br><b>7303</b>                            |                                                                             | To<br><b>7311</b> |                                      |
| Gas Pay: From <b>7195</b>                       |                     | To <b>7403</b>          |                            | L <b>7293</b>    |                                                 | G <b>.700</b>                                                               |                   | GL <b>5105</b> Bar. Press. <b>12</b> |
| Producing Through:                              |                     | Casing                  |                            | Tubing <b>XX</b> |                                                 | Type Well - Single - Braden head - G.G. or G.O. Dual<br><b>Single - Gas</b> |                   |                                      |
| Date of Completion<br><b>10/4/67</b>            |                     | Packer                  |                            |                  | Reservoir Temp.                                 |                                                                             |                   |                                      |

**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 OF FLOW HR. |
| No.             | (Prover) (Line) Size | (Choke) (Orifice) Size          | Press. psig.                              | Diff. h <sub>w</sub>           | Temp. °F.    | Press. psig. | Temp. °F. | Press. psig. | Temp. °F. |                      |
| SI              | <b>2"</b>            | <b>3/4"</b>                     |                                           |                                |              | <b>2067</b>  |           | <b>2027</b>  |           | <b>9 days</b>        |
| 1.              |                      |                                 |                                           |                                |              | <b>350</b>   | <b>77</b> | <b>1215</b>  |           | <b>3 hrs.</b>        |
| 2.              |                      |                                 |                                           |                                |              |              |           |              |           |                      |
| 3.              |                      |                                 |                                           |                                |              |              |           |              |           |                      |
| 4.              |                      |                                 |                                           |                                |              |              |           |              |           |                      |
| 5.              |                      |                                 |                                           |                                |              |              |           |              |           |                      |

**FLOW CALCULATIONS**

| No. | Coefficient (24 Hour) | $\sqrt{h_w P_f}$ | Pressure psia | Flow Temp. Factor F <sub>t</sub> | Gravity Factor F <sub>g</sub> | Compress. Factor F <sub>pv</sub> | Rate of Flow Q-MCF P D @ 15.025 psia |
|-----|-----------------------|------------------|---------------|----------------------------------|-------------------------------|----------------------------------|--------------------------------------|
| 1.  | <b>12.3650</b>        |                  | <b>362</b>    | <b>.9840</b>                     | <b>.9258</b>                  | <b>1.039</b>                     | <b>4,237</b>                         |
| 2.  |                       |                  |               |                                  |                               |                                  |                                      |
| 3.  |                       |                  |               |                                  |                               |                                  |                                      |
| 4.  |                       |                  |               |                                  |                               |                                  |                                      |
| 5.  |                       |                  |               |                                  |                               |                                  |                                      |

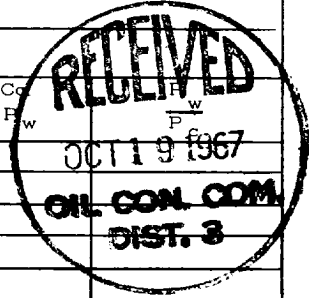
**PRESSURE CALCULATIONS**

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.      Specific Gravity Separator Gas \_\_\_\_\_

Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.      Specific Gravity Flowing Fluid \_\_\_\_\_

F<sub>c</sub> \_\_\_\_\_ (1 - e<sup>-S</sup>) \_\_\_\_\_      P<sub>c</sub> **2079**      P<sub>c</sub><sup>2</sup> **4,322,241**

| No. | $\frac{P_w}{P_t}$ 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> | Co F <sub>w</sub> |
|-----|------------------------|-----------------------------|------------------|---------------------------------|--------------------------------------------------------|-----------------------------|-----------------------------------------------------------|-------------------|
| 1.  | <b>1227</b>            |                             |                  |                                 |                                                        | <b>1,505,529</b>            | <b>2,816,712</b>                                          |                   |
| 2.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                   |
| 3.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                   |
| 4.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                   |
| 5.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                   |



ABSOLUTE POTENTIAL: **5,841** MCFPD; n \_\_\_\_\_

COMPANY **Southern Union Production Company**      WITNESSED **Clarence Wagner**

ADDRESS **Farlington, New Mexico**      COMPANY **El Paso Natural Gas Company**

AGENT AND TITLE **Wayne Warrington** *Wayne Warrington*  
**Office Manager**