

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-122  
Revised 10-1-78

## MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

|                                                                                                                           |              |                         |                   |                                                |                        |                                     |                    |                              |  |
|---------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------|-------------------|------------------------------------------------|------------------------|-------------------------------------|--------------------|------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |              |                         |                   |                                                | Test Date<br>12-16-81  |                                     |                    |                              |  |
| Company<br>SUPRON ENERGY CORPORATION                                                                                      |              |                         |                   | Connection<br>Southern Union Gathering Company |                        |                                     |                    |                              |  |
| Pool<br>Basin                                                                                                             |              |                         |                   | Formation<br>Dakota                            |                        |                                     |                    | Unit                         |  |
| Completion Date<br>11-30-81                                                                                               |              | Total Depth<br>6425     |                   | Plug Back TD<br>6386                           |                        | Elevation<br>5694                   |                    | Farm or Lease Name<br>McCord |  |
| Csq. Size<br>4.500                                                                                                        | Wt.<br>10.50 | d<br>4.052              | Set At<br>6425    | Perforations:<br>From 6190 To 6346             |                        | Well No.<br>3-E                     |                    |                              |  |
| Thq. Size<br>2.375                                                                                                        | Wt.<br>4.70  | d<br>1.995              | Set At<br>6286    | Perforations:<br>From NO PERFORATIONS To       |                        | Unit Sec. Twp. Rge.<br>C 34 30N 13W |                    |                              |  |
| Type Well - Single - Bradenhead - G.C. or G.O. Multiple<br>Single                                                         |              |                         |                   |                                                | Packer Set At<br>----- |                                     | County<br>San Juan |                              |  |
| 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>6276                                                                                                                 | H            | Gg<br>0.700             | % 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"         |                 |                      |             | 2005            |             | 2005            |                  | 7 days   |
| 1.        |                  |   |              |                 |                      |             | 150             | 83°         | 473             |                  | 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 F <sub>t</sub> | Gravity Factor F <sub>g</sub> | Super Compress. Factor F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | 12.3650               |                  | 162                     | 0.9786                           | 0.9258                        | 1.017                                  | 1846                 |
| 2.                        |                       |                  |                         |                                  |                               |                                        |                      |
| 3.                        |                       |                  |                         |                                  |                               |                                        |                      |
| 4.                        |                       |                  |                         |                                  |                               |                                        |                      |
| 5.                        |                       |                  |                         |                                  |                               |                                        |                      |

  

| NO. | P <sub>t</sub> | Temp. °R | Gas Liquid Hydrocarbon Ratio | A.P.I. Gravity of Liquid Hydrocarbons | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure P.S.I.A. | Critical Temperature °R |
|-----|----------------|----------|------------------------------|---------------------------------------|--------------------------------|--------------------------------|----------------------------|-------------------------|
| 1   |                |          |                              |                                       |                                |                                |                            |                         |
| 2   |                |          |                              |                                       |                                |                                |                            |                         |
| 3   |                |          |                              |                                       |                                |                                |                            |                         |
| 4   |                |          |                              |                                       |                                |                                |                            |                         |
| 5   |                |          |                              |                                       |                                |                                |                            |                         |

  

| NO. | P <sub>t</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   |                             | 485            | 235,225                     | 3,833,064                                                 |
| 2   |                             |                |                             |                                                           |
| 3   |                             |                |                             |                                                           |
| 4   |                             |                |                             |                                                           |
| 5   |                             |                |                             |                                                           |

  

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0614$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1930$

(2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0456$

  

|                    |      |               |                  |          |      |
|--------------------|------|---------------|------------------|----------|------|
| Absolute Open Flow | 1930 | Mcfd @ 15.025 | Angle of Slope ° | Slope, n | 0.75 |
|--------------------|------|---------------|------------------|----------|------|

  

Remarks:

  

|                      |                                 |                                    |             |
|----------------------|---------------------------------|------------------------------------|-------------|
| Approved By Division | Conducted By:<br>Floyd Woodward | Calculated By:<br>Kenneth E. Roddy | Checked By: |
|----------------------|---------------------------------|------------------------------------|-------------|