

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

P. O. BOX 2088

Form C-122

Revised 10-1-78

ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

## 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>12-12-80                                  |                                                                                      |
| Company<br>SUPRON ENERGY CORPORATION                                                                                      |                       | Connection<br>Southern Union Gathering Company         |                                                                                      |
| Pool<br>Basin                                                                                                             |                       | Formation<br>Dakota                                    |                                                                                      |
| Completion Date<br>10-15-80                                                                                               |                       | Total Depth<br>8045                                    | Plug Back TD<br>7997                                                                 |
|                                                                                                                           |                       | Elevation<br>6484                                      | Form or Lease Name<br>Quinn                                                          |
| Coq. Size<br>7.625<br>5.500                                                                                               | Wt.<br>26.40<br>15.50 | d<br>6.969<br>4.950                                    | Set At<br>3626<br>3495-8011                                                          |
| Perforations:<br>From 7814 To 7990                                                                                        |                       | Well No.<br>4-A                                        |                                                                                      |
| Perforations:<br>From To                                                                                                  |                       | Unit    Sec.    Twp.    Rge.<br>I    19    31-N    8-W |                                                                                      |
| Type Well - Single - Brodenhead - G.C. or G.O. Multiple<br>Dual - Gas - Gas                                               |                       | Packer Set At<br>7770                                  | County<br>San Juan                                                                   |
| Producing Thru<br>Tubing                                                                                                  |                       | Baro. Press. - P <sub>a</sub><br>12                    | State<br>New Mexico                                                                  |
| L<br>7763                                                                                                                 | H                     | G <sub>g</sub><br>0.700                                | % CO <sub>2</sub> % N <sub>2</sub> % H <sub>2</sub> S    Prover    Meter Run    Tops |

  

| 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"         |                 |                      |             | 612             |             |                 |                  | 14 days  |
| 1.        |                  |   |              |                 |                      |             | -0-             |             |                 |                  | 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 F <sub>g</sub> | Super Compress. Factor, F <sub>sp</sub> | Rate of Flow Q, Mcfd |
| 1                         |                       |                  |                         |                       |                               |                                         | -0-                  |
| 2.                        |                       |                  |                         |                       |                               |                                         |                      |
| 3.                        |                       |                  |                         |                       |                               |                                         |                      |
| 4.                        |                       |                  |                         |                       |                               |                                         |                      |
| 5.                        |                       |                  |                         |                       |                               |                                         |                      |

  

| NO. | P <sub>f</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                 |

  

| NO. | P <sub>i</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ |
|-----|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------|-------------------------------------|------------------------------------------------------|
| 1   |                             |                             |                             |                                                           |                                     |                                                      |
| 2   |                             |                             |                             |                                                           |                                     |                                                      |
| 3   |                             |                             |                             |                                                           |                                     |                                                      |
| 4   |                             |                             |                             |                                                           |                                     |                                                      |
| 5   |                             |                             |                             |                                                           |                                     |                                                      |

  

| NO. | P <sub>i</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ |
|-----|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------|----------------------------------------------------------|
| 1   |                             |                             |                             |                                                           | -0-                                                      |
| 2   |                             |                             |                             |                                                           |                                                          |
| 3   |                             |                             |                             |                                                           |                                                          |
| 4   |                             |                             |                             |                                                           |                                                          |
| 5   |                             |                             |                             |                                                           |                                                          |

  

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

  

|                      |               |                |             |
|----------------------|---------------|----------------|-------------|
| Remarks:             |               |                |             |
| Approved By Division | Conducted By: | Calculated By: | Checked By: |