

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

Form C-122  
 Revised 9-7-65

|                                                                                                                           |  |                                      |  |                                                |  |
|---------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------|--|------------------------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                                      |  | Test Date<br>4-9-80                            |  |
| Company<br>SUPRON ENERGY CORPORATION                                                                                      |  |                                      |  | Connection<br>Southern Union Gathering Company |  |
| Pool<br>Blanco                                                                                                            |  |                                      |  | Formation<br>Mesaverde                         |  |
| Completion Date<br>3-28-80                                                                                                |  | Total Depth<br>4875                  |  | Elevation<br>5789                              |  |
| Well No.<br>1-A                                                                                                           |  | Farm or Lease Name<br>Mims State Com |  | Unit<br>D 16 29N 9W                            |  |
| Casing Size<br>7.000<br>4.500                                                                                             |  | Wellbore Size<br>23.00<br>9.50       |  | Perforations:<br>From 3929 To 4605             |  |
| Tubing Size<br>2.0625                                                                                                     |  | Wellbore Size<br>3.25                |  | Perforations:<br>From NO PERFORATIONS To       |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Dual - Gas - Gas                                               |  |                                      |  | Packer Set At<br>3843                          |  |
| Producing Thru<br>Tubing                                                                                                  |  | Reservoir Temp. °F<br>8              |  | Mean Annual Temp. °F<br>12                     |  |
| L<br>4543                                                                                                                 |  | H<br>0.650                           |  | Prover<br>Meter Run                            |  |
| Gg<br>0.650                                                                                                               |  | % CO <sub>2</sub>                    |  | % N <sub>2</sub>                               |  |
| % H <sub>2</sub> S                                                                                                        |  | Prover                               |  | Taps                                           |  |

  

| FLOW DATA |                  |   |              |                 |          | TUBING DATA |                 | CASING DATA |                 | Duration of Flow |          |
|-----------|------------------|---|--------------|-----------------|----------|-------------|-----------------|-------------|-----------------|------------------|----------|
| NO.       | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. hw | Temp. °F    | Press. p.s.i.g. | Temp. °F    | Press. p.s.i.g. |                  | Temp. °F |
| SI        | 2"               |   | 3/4"         |                 |          |             | 560             |             |                 |                  | 7 days   |
| 1.        |                  |   |              |                 |          |             | 60              | 60°         |                 |                  | 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               |                  | 72                      | 1.0000                | 0.9608            | 1.000                      | 855                  |
| 2.                        |                       |                  |                         |                       |                   |                            |                      |
| 3.                        |                       |                  |                         |                       |                   |                            |                      |
| 4.                        |                       |                  |                         |                       |                   |                            |                      |
| 5.                        |                       |                  |                         |                       |                   |                            |                      |

  

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

  

| NO. | P <sub>r</sub> | P <sub>w</sub> | P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | P <sub>r</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
|-----|----------------|----------------|-----------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------|
| 1   | 572            | 327,184        | 29,913                                                    | 297,271                     |                             |                                                           |
| 2.  |                |                |                                                           |                             |                             |                                                           |
| 3.  |                |                |                                                           |                             |                             |                                                           |
| 4.  |                |                |                                                           |                             |                             |                                                           |
| 5.  |                |                |                                                           |                             |                             |                                                           |

  

(1)  $\frac{P_r^2}{P_r^2 - P_w^2} = 1.1006$

AOF = Q  $\left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 919$

(2)  $\frac{P_r^2}{P_r^2 - P_w^2} = 1.1006$

AOF = Q  $\left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 919$

  

|                    |     |              |                |      |
|--------------------|-----|--------------|----------------|------|
| Absolute Open Flow | 919 | Mcf @ 15.025 | Angle of Slope | 0.75 |
|--------------------|-----|--------------|----------------|------|

  

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 DIST. 3

  

|                         |                                |                                    |             |
|-------------------------|--------------------------------|------------------------------------|-------------|
| Approved By Commission: | Conducted By:<br>CLIFTON GATES | Calculated By:<br>Kenneth E. Roddy | Checked By: |
|-------------------------|--------------------------------|------------------------------------|-------------|