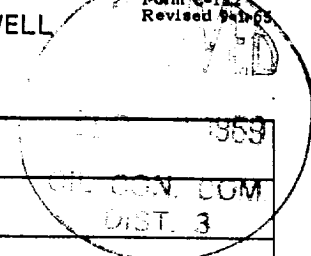


**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Form O-122  
 Revised 9-6-65



|                                                                                                                           |  |                     |  |                                        |  |                                    |  |
|---------------------------------------------------------------------------------------------------------------------------|--|---------------------|--|----------------------------------------|--|------------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                     |  | Test Date<br>9-5-69                    |  | 3559                               |  |
| Company<br>Aztec Oil & Gas                                                                                                |  |                     |  | Connection<br>Southern Union Gathering |  |                                    |  |
| Pool<br>Pictured Cliffs                                                                                                   |  |                     |  | Unit<br>Crandell                       |  |                                    |  |
| Completion Date<br>8-29-69                                                                                                |  | Total Depth<br>2713 |  | Plug Back TD<br>2713                   |  | Elevation<br>5912 Gr               |  |
| Csg. Size<br>4 1/2                                                                                                        |  | Vt.<br>9.5          |  | Set At<br>2713                         |  | Perforations:<br>From 2586 To 2604 |  |
| Tag. Size<br>1"                                                                                                           |  | Wt.<br>1.7          |  | Set At<br>2520                         |  | Perforations:<br>From Opened To    |  |
| Type Well - Single - Brodenhead - G.G. or G.O. Multiple<br>Single                                                         |  |                     |  | Packer Set At                          |  | County<br>San Juan                 |  |
| Producing Thru                                                                                                            |  | Reservoir Temp. °F  |  | Mean Annual Temp. °F                   |  | Baro. Press. - P <sub>a</sub>      |  |
| L                                                                                                                         |  | H                   |  | G <sub>g</sub>                         |  | State<br>New Mexico                |  |
|                                                                                                                           |  |                     |  | % 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          |                 |                      |          | 810             |          | 810             |          |                  |
| 1.        |                  |   |              |                 |                      |          | 154             |          | 146             |          | 3                |
| 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>pv</sub> | Rate of Flow Q, Mscfd |
| 1                         | 12.365                |                  | 158                     | 1.000                 | .9258                         | 1.000                                   | 1809                  |
| 2                         |                       |                  |                         |                       |                               |                                         |                       |
| 3                         |                       |                  |                         |                       |                               |                                         |                       |
| 4                         |                       |                  |                         |                       |                               |                                         |                       |
| 5                         |                       |                  |                         |                       |                               |                                         |                       |

| NO. | P <sub>f</sub> | Temp. °R | T <sub>f</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>f</sub> | 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) $\frac{P_c^2}{P_c^2 - P_w^2} =$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ |
|-----|----------------|----------------|-----------------------------|-----------------------------------------------------------|-------------------------------------|------------------------------------------------------|
| 1   | 822            | 166            | 27556                       | 648,128                                                   | 1.043                               | 1.035                                                |
| 2   |                |                |                             |                                                           |                                     |                                                      |
| 3   |                |                |                             |                                                           |                                     |                                                      |
| 4   |                |                |                             |                                                           |                                     |                                                      |
| 5   |                |                |                             |                                                           |                                     |                                                      |

|                                                                |  |                      |  |
|----------------------------------------------------------------|--|----------------------|--|
| AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.872$ |  |                      |  |
| Absolute Open Flow _____ Mcfd @ 15.025                         |  | Angle of Slope _____ |  |
| Slope, n _____                                                 |  |                      |  |
| Remarks: _____                                                 |  |                      |  |
| Approved By Commission: _____                                  |  |                      |  |
| Conducted By: _____                                            |  | Calculated By: _____ |  |
| Checked By: _____                                              |  |                      |  |