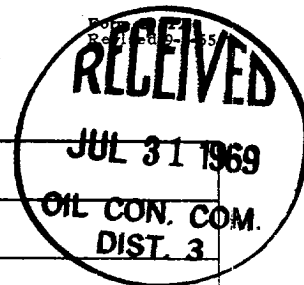


NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



|                                                                                                                        |                |                         |                    |                                         |                    |                               |                |
|------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|--------------------|-----------------------------------------|--------------------|-------------------------------|----------------|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                |                         |                    | Test Date <u>7-18-69</u>                |                    |                               |                |
| Company <u>Aztec Oil &amp; Gas Company</u>                                                                             |                |                         |                    | Connection <u>Southern Union Gas</u>    |                    |                               |                |
| Pool <u>Aztec</u>                                                                                                      |                |                         |                    | Formation <u>Pictured Cliffs E. 4th</u> |                    |                               |                |
| Completion Date <u>7-11-69</u>                                                                                         |                | Total Depth <u>2150</u> |                    | Plug Back TD <u>2149</u>                |                    | Elevation <u>5887</u>         |                |
| Form or Lease Name <u>Cain</u>                                                                                         |                |                         |                    | Well No. <u>18</u>                      |                    |                               |                |
| Csg. Size <u>4-1/2"</u>                                                                                                | Wt. <u>2.5</u> | Set At <u>4,090</u>     | Set At <u>2150</u> | Perforations: <u>From 2026 To 2147</u>  |                    |                               |                |
| Eng. Size <u>1.315</u>                                                                                                 | Wt. <u>1.7</u> | Set At <u>1,049</u>     | Set At <u>2100</u> | Perforations: <u>From To</u>            |                    |                               |                |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple <u>Single</u>                                                  |                |                         |                    | Packer Set At                           |                    | Country <u>San Juan</u>       |                |
| Product: Thru                                                                                                          |                | Reservoir Temp. °F      |                    | Mean Annual Temp. °F                    |                    | Baro. Press. - P <sub>a</sub> |                |
|                                                                                                                        |                |                         |                    |                                         |                    | State <u>New Mexico</u>       |                |
| L                                                                                                                      | H              | Gg                      | % 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. |                  |
| 1.        | 2                | X | 3/4"         |                 |                      |             | 516             |             | 516             |                  |
| 2.        |                  |   |              |                 |                      |             | 187             |             | 178             |                  |
| 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, F <sub>pw</sub> | Rate of Flow Q, Mscf/d |
| 1.                        | 12.365                |                  | 190                     | 1.000                 | .9258             | 1.023                                   | 2.225                  |
| 2.                        |                       |                  |                         |                       |                   |                                         |                        |
| 3.                        |                       |                  |                         |                       |                   |                                         |                        |
| 4.                        |                       |                  |                         |                       |                   |                                         |                        |
| 5.                        |                       |                  |                         |                       |                   |                                         |                        |

|     |                |          |                |   |                                                      |
|-----|----------------|----------|----------------|---|------------------------------------------------------|
| NO. | P <sub>t</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                 |

|                           |                                           |                |
|---------------------------|-------------------------------------------|----------------|
| P <sub>t</sub> <u>528</u> | P <sub>c</sub> <sup>2</sup> <u>278784</u> |                |
| NO.                       | P <sub>t</sub> <sup>2</sup>               | P <sub>w</sub> |
| 1                         | 36100                                     | 38117          |
| 2                         |                                           |                |
| 3                         |                                           |                |
| 4                         |                                           |                |
| 5                         |                                           |                |

$$(1) \frac{P_c^2}{P_t^2 - P_w^2} = 1.1584$$

$$AOF = Q \left[ \frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 2521$$

$$(2) \left[ \frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.1331$$

|                                |                     |                                   |                   |
|--------------------------------|---------------------|-----------------------------------|-------------------|
| Absolute Open Flow <u>2521</u> | Mscf/d @ 15.025     | Angle of Slope @ _____            | Slope, n _____    |
| Remarks: _____                 |                     |                                   |                   |
| Approved By Commission: _____  | Conducted By: _____ | Calculated By: <u>[Signature]</u> | Checked By: _____ |