

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

Form C-122  
 Revised 9-1-65

|                                                                                                                           |              |                         |                   |                                        |                      |                      |
|---------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------|-------------------|----------------------------------------|----------------------|----------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |              |                         |                   |                                        | Test Date<br>12-3-73 |                      |
| Company<br>Aztec Oil & Gas Company                                                                                        |              |                         |                   | Connection<br>Southern Union Gathering |                      |                      |
| Pool<br>Aztec                                                                                                             |              |                         |                   | Formation<br>Pictured Cliff            |                      | Unit                 |
| Completion Date<br>11-26-73                                                                                               |              | Total Depth<br>2120'    |                   | Plug Back TD<br>2120'                  |                      | Elevation<br>5780 GR |
| Farm or Lease Name<br>McClanahan                                                                                          |              |                         |                   |                                        |                      | Well No.<br>#5-Y     |
| Orifice Size<br>4 1/2"                                                                                                    | Wt.<br>10.5# | d                       | Set At<br>2120'   | Perforations:<br>From 1976 To 2002     |                      | Unit<br>E 13 28N 10W |
| Thg. Size<br>1"                                                                                                           | Wt.<br>1.70# | d                       | Set At<br>1979'   | Perforations:<br>From ---- To ----     |                      | Unit<br>E 13 28N 10W |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |              |                         |                   | Packer Set At<br>----                  |                      | County<br>San Juan   |
| Producing Thru<br>Casing                                                                                                  |              | Reservoir Temp. °F<br>@ |                   | Mean Annual Temp. °F                   |                      | State<br>New Mexico  |
| 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. | Temp. °F |                  |
| 1.        | 2"               |   | 3/4"         |                 |                      |          | 355             |          | 353             |          | 770<br>3 Hours   |
| 2.        |                  |   |              |                 |                      |          | 69              |          | 67              |          |                  |
| 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                         | 12,365                |                  | 67                      | 1.0000                | .9258             | 1.0000                     | 767                  |
| 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 _____ XXXXXXXXXX  |
| 3   |                |          |                |   | Specific Gravity Flowing Fluid _____ XXXXX       |
| 4   |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.  |
| 5   |                |          |                |   | Critical Temperature _____ R _____ R             |

  

|                    |                                     |                                            |                                                             |
|--------------------|-------------------------------------|--------------------------------------------|-------------------------------------------------------------|
| P <sub>c</sub> 355 | P <sub>c</sub> <sup>2</sup> 126,025 | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0392$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0332$ |
| NO.                | P <sub>t</sub> <sup>2</sup>         | P <sub>w</sub>                             | P <sub>w</sub> <sup>2</sup>                                 |
| 1                  |                                     | 69                                         | 4,761                                                       |
| 2                  |                                     |                                            |                                                             |
| 3                  |                                     |                                            |                                                             |
| 4                  |                                     |                                            |                                                             |
| 5                  |                                     |                                            |                                                             |

  

|                                             |  |                        |
|---------------------------------------------|--|------------------------|
| Absolute Open Flow <u>793</u> Mcfd @ 15.025 |  | Angle of Slope @ _____ |
| Remarks: _____                              |  |                        |

  

|                         |               |                                        |             |
|-------------------------|---------------|----------------------------------------|-------------|
| Approved By Commission: | Conducted By: | Calculated By: <i>John C. Sullivan</i> | Checked By: |
|-------------------------|---------------|----------------------------------------|-------------|

