

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><b>11/12/66</b>                        |           |
| Company<br><b>Aztec Oil and Gas</b>                                                                                       |   |                                |                   | Connection<br><b>Southern Union Gathering</b> |                    |                                                     |           |
| Pool<br><b>Basin Dakota</b>                                                                                               |   |                                |                   | Formation<br><b>Dakota</b>                    |                    | Unit                                                |           |
| Completion Date<br><b>11/5/66</b>                                                                                         |   | Total Depth<br><b>7125</b>     |                   | Plug Back TD<br><b>7100</b>                   |                    | Elevation<br><b>5989 GL</b>                         |           |
| Csg. Size<br><b>4 1/2</b>                                                                                                 |   | Wt. <b>10.5</b><br><b>11.6</b> |                   | d <b>4.000</b><br><b>7123</b>                 |                    | Set At                                              |           |
| Tbg. Size<br><b>2-3/8</b>                                                                                                 |   | Wt. <b>4.7</b>                 |                   | d <b>1.995</b><br><b>7037</b>                 |                    | Set At                                              |           |
| Perforations:<br>From <b>6941</b> To <b>7064</b>                                                                          |   |                                |                   | Well No.<br><b>16</b>                         |                    |                                                     |           |
| Perforations:<br>From <b>7037</b> To <b>open ended</b>                                                                    |   |                                |                   | Unit<br><b>C</b>                              |                    | Sec. <b>4</b><br>Twp. <b>31N</b><br>Rge. <b>12W</b> |           |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br><b>single gas</b>                                              |   |                                |                   |                                               |                    | Packer Set At<br><b>-</b>                           |           |
| Producing Thru<br><b>tubing</b>                                                                                           |   | Reservoir Temp. °F<br><b>@</b> |                   | Mean Annual Temp. °F                          |                    | Baro. Press. - P <sub>a</sub>                       |           |
| County<br><b>San Juan</b>                                                                                                 |   | State<br><b>New Mexico</b>     |                   |                                               |                    |                                                     |           |
| 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.        | <b>2"</b>        |   | <b>3/4"</b>  | <b>Shut in 7 days</b> |                      |             | <b>1654</b>     |                 | <b>1654</b>     |                  |
| 2.        |                  |   |              |                       |                      |             | <b>206</b>      | <b>60 (est)</b> | <b>563</b>      | <b>60 (est)</b>  |
| 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.                        | <b>12.365</b>         |                  | <b>218</b>              | <b>1.000</b>         | <b>.9258</b>      | <b>1.026</b>                | <b>2561</b>          |
| 2.                        |                       |                  |                         |                      |                   |                             |                      |
| 3.                        |                       |                  |                         |                      |                   |                             |                      |
| 4.                        |                       |                  |                         |                      |                   |                             |                      |
| 5.                        |                       |                  |                         |                      |                   |                             |                      |

  

|     |                |          |                |   |                                                      |
|-----|----------------|----------|----------------|---|------------------------------------------------------|
| NO. | P <sub>r</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>c</sub> <b>1666</b> | P <sub>c</sub> <sup>2</sup> <b>2,775,556</b> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = \mathbf{1.135}$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \mathbf{1.0997}$ |
| NO.                        | P <sub>t</sub> <sup>2</sup>                  | P <sub>w</sub> <sup>2</sup>                        | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>            |
| 1.                         |                                              |                                                    |                                                                      |
| 2.                         |                                              |                                                    |                                                                      |
| 3.                         |                                              |                                                    |                                                                      |
| 4.                         |                                              |                                                    |                                                                      |
| 5.                         |                                              |                                                    |                                                                      |

  

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \mathbf{2816}$

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DIST. 3

  

|                                              |                                    |
|----------------------------------------------|------------------------------------|
| Absolute Open Flow <b>2816</b> Mcfd @ 15.025 | Angle of Slope $\theta$ <b>.75</b> |
| Remarks:                                     |                                    |
| Approved By Commission:                      | Conducted By:                      |
| Calculated By:                               | Checked By:                        |