

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>3-24-77              |  |
| Company<br>Aztec Oil & Gas Company                                                                                        |  |                                    |  | Connection<br>El Paso Natural Gas |  |
| Pool<br>Blanco                                                                                                            |  |                                    |  | Unit<br>Mesa Verde                |  |
| Completion Date<br>3-14-77                                                                                                |  | Total Depth<br>5774'               |  | Elevation<br>6544 KB              |  |
| Perforations:<br>From 5446 To 5642                                                                                        |  | Perforations:<br>From 5313 To 4899 |  | Well No.<br>#1-A                  |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Multiple                                                       |  | Packer Set At<br>3284              |  | County<br>San Juan                |  |
| Producing Thru<br>Tbg                                                                                                     |  | Reservoir Temp. °F<br>@            |  | State<br>New Mexico               |  |
| L                                                                                                                         |  | H                                  |  | Taps                              |  |
| Gg<br>.700                                                                                                                |  | % CO <sub>2</sub>                  |  | % N <sub>2</sub>                  |  |
| % H <sub>2</sub> S                                                                                                        |  | Prover                             |  | Meter Run                         |  |

  

| 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. |                  |
| SI        |                  |   |              |                 |                      |             | 864             |             |                 |                  |
| 1.        | 2" X 3/4"        |   |              |                 |                      |             | 161             |             |                 |                  |
| 2.        |                  |   |              |                 |                      |             | 158             |             |                 |                  |
| 3.        |                  |   |              |                 |                      |             | 154             |             |                 |                  |
| 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                |                  | 166.2                   | 1.0000                | .9258             | 1.0000                      | 1,903                |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

  

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

  

|                                 |                             |                |                             |                                                           |
|---------------------------------|-----------------------------|----------------|-----------------------------|-----------------------------------------------------------|
| $P_c = 876.2$ $P_c^2 = 767,726$ |                             |                |                             |                                                           |
| NO.                             | P <sub>t</sub> <sup>2</sup> | 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                               |                             | 166.2          | 27,622                      | 740,104                                                   |
| 2                               |                             |                |                             |                                                           |
| 3                               |                             |                |                             |                                                           |
| 4                               |                             |                |                             |                                                           |
| 5                               |                             |                |                             |                                                           |

  

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0373$$

$$AOF = C \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,956$$

$$(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0278$$

  

|                    |       |                |                  |              |
|--------------------|-------|----------------|------------------|--------------|
| Absolute Open Flow | 1,956 | Mcf/d @ 15.025 | Angle of Slope @ | Slope, n .75 |
|--------------------|-------|----------------|------------------|--------------|

  

|                         |                                |                                      |                                   |
|-------------------------|--------------------------------|--------------------------------------|-----------------------------------|
| Remarks:                |                                |                                      |                                   |
| Approved By Commission: | Conducted By:<br>Cliff Pistole | Calculated By:<br><i>James Smith</i> | Checked By:<br><i>[Signature]</i> |