

**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>6-2-78                   |           |                                |  |
| Company<br>Southland Royalty Company                                                                                      |               |                         |                      | Connection<br>Southern Union Gathering Company |                    |                                       |           |                                |  |
| Pool<br>Blanco                                                                                                            |               |                         |                      | Formation<br>Mesa Verde                        |                    |                                       |           | Unit                           |  |
| Completion Date<br>5-18-78                                                                                                |               | Total Depth<br>5319'    |                      | Plug Back TD<br>5213'                          |                    | Elevation<br>6124' GR                 |           | Farm or Lease Name<br>Thompson |  |
| Cwg. Size<br>4.500                                                                                                        | Wt.<br>10.50# | d<br>6.456              | Set At<br>2677-2854' | Perforations:<br>From 4888' To 5153'           |                    | Well No.<br>#10A                      |           |                                |  |
| Tbg. Size<br>2.375                                                                                                        | Wt.<br>4.7#   | d<br>1.995              | Set At<br>5089'      | Perforations:<br>From To                       |                    | Unit Soc. Twp. Rge.<br>A 27-T31N-R12W |           |                                |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |               |                         |                      |                                                |                    | Packer Set At<br>---                  |           | County<br>San Juan             |  |
| Producing Thru<br>Tbg.                                                                                                    |               | Reservoir Temp. °F<br>8 |                      | Mean Annual Temp. °F<br>12.2                   |                    | Baro. Press. - P <sub>a</sub><br>12.2 |           | State<br>New Mexico            |  |
| L                                                                                                                         | H             | Gg<br>.700              | % 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        |                  |   |              |                 |                      |          | 998             |          | 998             |          |                  |
| 1.        | 2"               | X | 3/4"         |                 |                      |          | 351             |          | 803             |          | 1 hr             |
| 2.        |                  |   |              |                 |                      |          | 311             |          | 770             |          | 2 hrs            |
| 3.        |                  |   |              |                 |                      |          | 295             |          | 748             |          | 3 hrs            |
| 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                |                  | 307.2                   | 1.0000                | .9258             | 1.0000                      | 3,517                |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

  

| NO. | P <sub>t</sub> | Temp. °R | T <sub>t</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>t</sub> | P <sub>c</sub> | P <sub>w</sub> | P <sub>c</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) $\frac{P_c^2}{P_c^2 - P_w^2} =$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ |
|-----|----------------|----------------|----------------|-----------------------------|-----------------------------|-----------------------------------------------------------|-------------------------------------|------------------------------------------------------|
| 1   | 1010.2         | 1,020,504      | 760.2          | 577,904                     | 442,600                     |                                                           | 2.3057                              | 1.8711                                               |
| 2   |                |                |                |                             |                             |                                                           |                                     |                                                      |
| 3   |                |                |                |                             |                             |                                                           |                                     |                                                      |
| 4   |                |                |                |                             |                             |                                                           |                                     |                                                      |
| 5   |                |                |                |                             |                             |                                                           |                                     |                                                      |

  

|                                               |  |                           |  |                               |  |                     |  |
|-----------------------------------------------|--|---------------------------|--|-------------------------------|--|---------------------|--|
| Absolute Open Flow <u>6,581</u> Mcfd @ 15.025 |  |                           |  | Angle of Slope $\theta$ _____ |  | Slope, n <u>.75</u> |  |
| Remarks: _____                                |  |                           |  |                               |  |                     |  |
| Approved By Commission                        |  | Conducted By<br>Jim Bacon |  | Calculated By:<br>James Smith |  | Checked By:<br>     |  |