

**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 checked="" type="checkbox"/> Special |            | Test Date<br>7-8-85       |                                                       |
| Company<br>El Paso Natural Gas                                                                                                       |            | Connection                |                                                       |
| Pool<br>Blanco                                                                                                                       |            | Formation<br>Mesa Verde   |                                                       |
| Completion Date<br>7-8-85                                                                                                            |            | Total Depth<br>5750       | Plug Back TD<br>5728                                  |
| Elevation<br>6479 GR                                                                                                                 |            | Farm or Lease Name<br>Day |                                                       |
| Csg. Size<br>7.000                                                                                                                   | Wt.<br>20  | Set At<br>6.456           | Perforations:<br>From *4767 To 5699                   |
| Trq. Size<br>2.375                                                                                                                   | Wt.<br>4.7 | Set At<br>1.995           | Perforations:<br>From To                              |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>G.G. Dual                                                                 |            | Packer Set At<br>3222     | Well No.<br>#2A                                       |
| Producing Thru<br>TBG                                                                                                                |            | Reservoir Temp. *F<br>a   | Mean Annual Temp. *F<br>a                             |
| Baro. Press. - P <sub>a</sub><br>12                                                                                                  |            | State<br>New Mexico       |                                                       |
| L                                                                                                                                    | H          | G <sub>g</sub><br>.690    | % 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.        |                  |   | .750         | 124             |                      | 64          | 306             | 124         |                 |                  | 16 Days  |
| 2.        |                  |   |              |                 |                      |             |                 |             |                 |                  | 3 Hrs.   |
| 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 F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | 12.365                |                  | 136                     | .9962                 | .9325                         | 1.014                                   | 1584                 |
| 2.                        |                       |                  |                         |                       |                               |                                         |                      |
| 3.                        |                       |                  |                         |                       |                               |                                         |                      |
| 4.                        |                       |                  |                         |                       |                               |                                         |                      |
| 5.                        |                       |                  |                         |                       |                               |                                         |                      |

  

| NO. | P <sub>f</sub> | Temp. *R | T <sub>f</sub> | Z | Gas Liquid Hydrocarbon Ratio | A.P.I. Gravity of Liquid Hydrocarbons | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure | Critical Temperature |
|-----|----------------|----------|----------------|---|------------------------------|---------------------------------------|--------------------------------|--------------------------------|-------------------|----------------------|
| 1   |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 2.  |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 3.  |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 4.  |                |          |                |   |                              |                                       |                                |                                |                   |                      |
| 5.  |                |          |                |   |                              |                                       |                                |                                |                   |                      |

  

|                    |                       |                |                             |                                                           |
|--------------------|-----------------------|----------------|-----------------------------|-----------------------------------------------------------|
| P <sub>c</sub> 318 | P <sub>w</sub> 101124 |                |                             |                                                           |
| NO.                | P <sub>f</sub>        | 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                  |                       | 271            | 73441                       | 27683                                                     |
| 2                  |                       |                |                             |                                                           |
| 3                  |                       |                |                             |                                                           |
| 4                  |                       |                |                             |                                                           |
| 5                  |                       |                |                             |                                                           |

  

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{101124}{27683}$$

$$ACF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4185$$

$$(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.6423$$

  

|                    |      |                |                         |              |
|--------------------|------|----------------|-------------------------|--------------|
| Absolute Open Flow | 4185 | Mcf/d @ 15.025 | Angle of Slope $\theta$ | Slope, n .75 |
|--------------------|------|----------------|-------------------------|--------------|

  

Remarks: \*4.500" Liner 3247'-5728'. Produced mist of oil throughout test. Gas vented during test = 196 MCF.

  

|                         |                              |                           |                    |
|-------------------------|------------------------------|---------------------------|--------------------|
| Approved by Commission: | Conducted By:<br>Joe Golding | Calculated By:<br>Ed Mabe | Checked By:<br>kld |
|-------------------------|------------------------------|---------------------------|--------------------|