

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

Form C-122  
Revised 9-1-65

**RECEIVED**  
**OCT 07 1985**  
**OIL CON. DIV. I**  
**DIST. 3**

|                                                                                                                           |            |                         |                   |                                     |                    |
|---------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|-------------------|-------------------------------------|--------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |            |                         |                   | Test Date<br>8-14-85                |                    |
| Company<br>El Paso Natural Gas                                                                                            |            |                         |                   | Connection                          |                    |
| Pool<br>Blanco                                                                                                            |            |                         |                   | Formation<br>Mesa Verde             |                    |
| Completion Date<br>8-14-85                                                                                                |            | Total Depth<br>6630     |                   | Plug Back TD<br>6614                |                    |
|                                                                                                                           |            |                         |                   | Elevation<br>7151 GR                |                    |
| Farm or Lease Name<br>S.J. 27-4 Unit                                                                                      |            |                         |                   |                                     |                    |
| Csg. Size<br>7.000                                                                                                        | Wt.<br>23  | d<br>6.456              | Set At<br>4433    | Perforations:<br>From *6210 To 6564 |                    |
| Well No.<br>#28A                                                                                                          |            |                         |                   |                                     |                    |
| Teg. Size<br>2.375                                                                                                        | Wt.<br>4.7 | d<br>1.995              | Set At<br>6564    | Perforations:<br>From To            |                    |
| Unit Sec. Twp. Rge.<br>C 11 27 04                                                                                         |            |                         |                   |                                     |                    |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |            |                         |                   | Packer Set At<br>None               |                    |
| County<br>Rio Arriba                                                                                                      |            |                         |                   |                                     |                    |
| Producing Thru<br>Tbg.                                                                                                    |            | Reservoir Temp. °F<br>a |                   | Baro. Press. - P <sub>a</sub><br>12 |                    |
| State<br>New Mexico                                                                                                       |            |                         |                   |                                     |                    |
| L                                                                                                                         | H          | G <sub>g</sub><br>.680  | % 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. hw | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F |                  |
| SI        |                  |   |              |                 |          |          | 1130            |          | 1165            |          | 7 Days           |
| 1.        |                  |   | .750         | 361             |          | 72       | 361             |          | 908             |          | 3 Hrs.           |
| 2.        |                  |   |              |                 |          |          |                 |          |                 |          |                  |
| 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, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | 12.365                |                  | 373                     | .9887                 | .9393             | 1.040                                   | 4455                 |
| 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 _____ 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>r</sub> 1177 | P <sub>w</sub> 1385329 |                |
| NO.                 | P <sub>r</sub>         | P <sub>w</sub> |
| 1                   |                        | 920            |
| 2                   |                        |                |
| 3                   |                        |                |
| 4                   |                        |                |
| 5                   |                        |                |

  

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1385329}{538929}$$

$$AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9044$$

$$(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.0301$$

  

|                         |               |                  |              |
|-------------------------|---------------|------------------|--------------|
| Absolute Open Flow 9044 | Mcfd @ 15.025 | Angle of Slope θ | Slope, n .75 |
|-------------------------|---------------|------------------|--------------|

  

Remarks: \*4.500" Liner 4260' - 6630'. Gas vented during test = 597 MCF.

  

|                         |                               |                           |                    |
|-------------------------|-------------------------------|---------------------------|--------------------|
| Approved By Commission: | Conducted By:<br>Harold Cloer | Calculated By:<br>Ed Mabe | Checked By:<br>kld |
|-------------------------|-------------------------------|---------------------------|--------------------|