

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADUAL COMPLETIONDATE October 8, 1957

|                                                |                             |                                        |                                 |
|------------------------------------------------|-----------------------------|----------------------------------------|---------------------------------|
| Operator<br><b>El Paso Natural Gas Company</b> |                             | Lease<br><b>Storey No. 3</b>           |                                 |
| Location<br><b>1050'S, 950'W, Sec. 26-28-8</b> |                             | County<br><b>San Juan</b>              | State<br><b>New Mexico</b>      |
| Formation<br><b>Mesa Verde</b>                 |                             | Pool<br><b>Blanco</b>                  |                                 |
| Casing: Diameter<br><b>7-5/8</b>               | Set At: Feet<br><b>2730</b> | Tubing: Diameter<br><b>2</b>           | Set At: Feet<br><b>4845</b>     |
| Pay Zone: From<br><b>4206</b>                  | To<br><b>4878</b>           | Total Depth:<br><b>4955 - c/o 4930</b> |                                 |
| Stimulation Method<br><b>Sand Water Frac.</b>  |                             | Flow Through Casing                    | Flow Through Tubing<br><b>X</b> |

|                                                 |             |                                    |                                                 |                                   |             |
|-------------------------------------------------|-------------|------------------------------------|-------------------------------------------------|-----------------------------------|-------------|
| Choke Size, Inches<br><b>0.75</b>               |             | Choke Constant: C<br><b>12.365</b> |                                                 | <b>5-1/2" liner - 2863 - 4952</b> |             |
| Shut-In Pressure, Casing, PSIG<br><b>PC 892</b> | + 12 = PSIA | Days Shut-In<br><b>9</b>           | Shut-In Pressure, Tubing, PSIG<br><b>1038</b>   | + 12 = PSIA                       | <b>1050</b> |
| Flowing Pressure: P, PSIG<br><b>258</b>         | + 12 = PSIA | <b>270</b>                         | Working Pressure: Pw, PSIG<br><b>Calculated</b> | + 12 = PSIA                       | <b>513</b>  |
| Temperature: T, F<br><b>69</b>                  | F           | <b>.75</b>                         | Fpv (From Tables)<br><b>1.027</b>               | Gravity                           | <b>.675</b> |

Final SIPC - 896 psig - Garrett Sleeve at 2570 - Packer at 2790

CHOKE VOLUME =  $Q = C \times P_r \times F_r \times F_g \times F_{pv}$ 

$$Q = 12.365 \times 270 \times .9915 \times .9427 \times 1.027 = 3205 \text{ MCF/D}$$

$$\text{OPEN FLOW } A_{of} = Q \left( \frac{P_c^2}{P_c - P_w} \right)^n$$

$$A_{of} = \left( \frac{1,102,500}{839,331} \right)^n = 1.3135^{.75} \times 3205 = 1.2265 \times 3205$$

$$A_{of} = 3931 \text{ MCF/D}$$

TESTED BY R. A. UllrichWITNESSED BY A. R. Kendrick, N.M.O.C.C.

cc: E. S. Oberly (6)

*L. D. Galloway*  
L. D. Galloway



AZ. FC DISTRICT OFFICE

34

4C.

[illegible]

9.

Reporter \_\_\_\_\_

100

$\frac{d}{dt} \left( \frac{1}{2} m v^2 + U(r) \right) = -\nabla U(r) \cdot \mathbf{v}$