

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 26, 1958

|                                               |                             |                                           |                                 |
|-----------------------------------------------|-----------------------------|-------------------------------------------|---------------------------------|
| Operator<br><b>El Paso Natural Gas</b>        |                             | Lease<br><b>San Juan 27-4 Unit 19 (M)</b> |                                 |
| Location<br><b>915N, 1020E; 5-27-4</b>        |                             | County<br><b>Rio Arriba</b>               | State<br><b>New Mexico</b>      |
| Formation<br><b>Mesa Verde</b>                |                             | Pool<br><b>Blanco MV</b>                  |                                 |
| Casing Diameter<br><b>7-5/8</b>               | Set At: Feet<br><b>4252</b> | Tubing Diameter<br><b>2"</b>              | Set At: Feet<br><b>6324</b>     |
| Pay Zone: From<br><b>6260</b>                 | To<br><b>6388</b>           | Total Depth:<br><b>6450 c/o 6405</b>      | <b>Shut-in 8/11/58</b>          |
| Stimulation Method<br><b>Sand Water Frac.</b> |                             | Flow Through Casing                       | Flow Through Tubing<br><b>X</b> |

|                                                   |                           |                                    |                                                   |                                |  |
|---------------------------------------------------|---------------------------|------------------------------------|---------------------------------------------------|--------------------------------|--|
| Choke Size, Inches<br><b>.75</b>                  |                           | Choke Constant: C<br><b>12.365</b> |                                                   | <b>5-1/2 liner 4222 - 6450</b> |  |
| Shut-In Pressure, Casing, PSIG<br><b>982 (PC)</b> | - 12 = PSIA<br><b>994</b> | Days Shut-In<br><b>15</b>          | Shut-in Pressure, Tubing, PSIG<br><b>997 (MV)</b> | - 12 = PSIA<br><b>1009</b>     |  |
| Flowing Pressure: P, PSIG<br><b>280</b>           | - 12 = PSIA<br><b>292</b> |                                    | Working Pressure: Pw, PSIG<br><b>Calc.</b>        | - 12 = PSIA<br><b>609</b>      |  |
| Temperature: T, F<br><b>67</b>                    |                           |                                    | Fpv: From Tables<br><b>1.033</b>                  | Gravity<br><b>.706</b>         |  |

Initial SIPP (PC) = 982 psig

Final SIPC (PC) = 990 psig

Packer at 4323

1-1/4" at 4086

CHOKE VOLUME =  $Q = C \times P_c \times F_c \times F_g \times F_{pv}$ 

$$Q = 12.365 \times 292 \times .9933 \times .9225 \times 1.033 = 3418 \text{ MCF/D}$$

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

$$A_{of} = \left( \frac{1018081}{647200} \right)^n \quad 1.5730^{.75} (3418) = 1.4045 (3418)$$

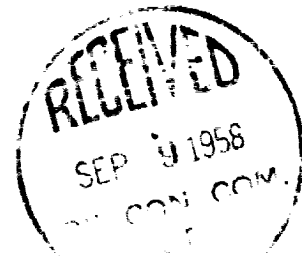
$$A_{of} = 4801 \text{ MCF/D}$$

Checked By Frank Clark

WITNESSED BY

Checked By R. R. Davis

*Lewis D Galloway*  
L. D. Galloway



**OIL CONSERVATION COMMISSION**

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