

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE **August 26, 1958**

|                                               |                             |                                       |                                 |
|-----------------------------------------------|-----------------------------|---------------------------------------|---------------------------------|
| Operator<br><b>El Paso Natural Gas</b>        |                             | Lease<br><b>San Juan 27-4 Unit 15</b> |                                 |
| Location<br><b>798N, 1654E; 6-27-4</b>        |                             | County<br><b>Rio Arriba</b>           | State<br><b>New Mexico</b>      |
| Formation<br><b>Mesa Verde</b>                |                             | Pool<br><b>Blanco</b>                 |                                 |
| Casing Diameter<br><b>7-5/8</b>               | Set At: Feet<br><b>4266</b> | Tubing Diameter<br><b>2"</b>          | Set At: Feet<br><b>6347</b>     |
| Pay Zone: From<br><b>6174</b>                 | To<br><b>6324</b>           | Total Depth<br><b>6420 c/o 6386</b>   | <b>Shut-in 7/13/58</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 4209 - 6429</b>                 |                                 |
| Shut-In Pressure, Casing<br><b>1154</b> | PSIG - 12 = PSIA<br><b>1166</b>    | Days Shut-In<br><b>13</b> | Shut-In Pressure, Tubing<br><b>1141</b>        | PSIG - 12 = PSIA<br><b>1153</b> |
| Flowing Pressure: P<br><b>378</b>       | PSIG - 12 = PSIA<br><b>390</b>     |                           | Working Pressure: P <sub>w</sub><br><b>931</b> | PSIG - 12 = PSIA<br><b>943</b>  |
| Temperature: T<br><b>67</b>             | F                                  |                           | F <sub>pv</sub> (From Tables)<br><b>1.045</b>  | Gravity<br><b>.706</b>          |

CHOKE VOLUME - Q = C x P<sub>s</sub> x F<sub>v</sub> x F<sub>g</sub> x F<sub>gr</sub>

$$Q = 12.365 \times 390 \times .9933 \times .9225 \times 1.045 = 4618 \text{ MCF D}$$

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

$$A_{of} = \left( \frac{1359556}{470307} \right)^{2.8907^{.75}} (4618) = 2.2180 (4618)$$

$$A_{of} = 10,243 \text{ MCF D}$$

PREPARED BY **Frank Clark**

WITNESSED BY

Checked By **H. L. Kendrick**

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|                              |                  |   |
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