

# EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **June 14, 1961**

|                                                 |                            |                                       |                            |
|-------------------------------------------------|----------------------------|---------------------------------------|----------------------------|
| Operator<br><b>El Paso Natural Gas Company</b>  |                            | Lease<br><b>San Juan 27-4 No. 29</b>  |                            |
| Location<br><b>696'N, 940,E, Sec. 26-27N-4W</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"</b>                    | Set At Feet<br><b>4192</b> | Tubing Diameter<br><b>1-1/4" O.D.</b> | Set At Feet<br><b>6187</b> |
| Pay Zone From<br><b>6084</b>                    | To<br><b>6218</b>          | Total Depth<br><b>4076 to 6294</b>    | Shut In<br><b>5-25-61</b>  |
| Stimulation Method<br><b>Sand/Water Frac.</b>   |                            | Flow Through Tubing<br><b>X</b>       |                            |

|                                               |                                    |                                               |                        |                   |
|-----------------------------------------------|------------------------------------|-----------------------------------------------|------------------------|-------------------|
| Choke Size, Inches<br><b>0.750</b>            | Choke Constant: C<br><b>12.365</b> | Days Shut-In<br><b>20</b>                     |                        | 4-1/2" O.D. Liner |
| Shut-In Pressure, Casing, PSIG<br><b>1111</b> | PSIG<br><b>1123</b>                | Shut-In Pressure, Tubing, PSIG<br><b>1110</b> | PSIG<br><b>1122</b>    |                   |
| Flowing Pressure: P, PSIG<br><b>397</b>       | PSIG<br><b>409</b>                 | Working Pressure: Pw, PSIG<br><b>449</b>      | PSIG<br><b>461</b>     |                   |
| Temperature<br><b>64 F</b>                    | <b>75 F</b>                        | Fpv From Tables<br><b>1.041</b>               | Gravity<br><b>.650</b> | Fg = <b>.9608</b> |

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

$$Q = (12.365)(409)(.9962)(.9608)(1.041)$$

**5039**

MCF/D

OPEN FLOW Aof  $Q \left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n$

$$Aof = \left( \frac{1261129}{1048608} \right)^n \cdot (1.2026)^{.75} (5039) = (1.1488)(5039)$$

Aof **5789** MCF/D

TESTED BY **R. F. Headrick**

WITNESSED BY

Checked by: **W. D. Dawson**  
Calculated by: **C. R. Wagner**



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