

# EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **4/27/59**

|                                                |                            |                                     |                                 |
|------------------------------------------------|----------------------------|-------------------------------------|---------------------------------|
| Operator<br><b>EL PASO NATURAL GAS COMPANY</b> |                            | Lease<br><b>Canyon Largo No. 69</b> |                                 |
| Location<br><b>1650S 1150E 15-25-6</b>         |                            | County<br><b>Rio Arriba</b>         | State<br><b>New Mexico</b>      |
| Formation<br><b>Chacra</b>                     |                            | Pool<br><b>Undesignated</b>         |                                 |
| Casing Diameter<br><b>7-5/8</b>                | Set At Feet<br><b>3584</b> | Tubing Diameter<br><b>2"</b>        | Set At Feet<br><b>3512</b>      |
| Pay Zone From<br><b>3400</b>                   | To<br><b>3510</b>          | Total Depth<br><b>3586 c/o 3538</b> | Shut In:<br><b>4/20/59</b>      |
| Stimulation Method<br><b>Sand Water Frac</b>   |                            | Flow Through Casing<br><b>X</b>     | Flow Through Tubing<br><b>X</b> |

|                                        |                                    |                                        |                               |
|----------------------------------------|------------------------------------|----------------------------------------|-------------------------------|
| Choke Size, Inches<br><b>0.75</b>      | Choke Constant, C<br><b>12.365</b> | Shut-In Pressure, Tubing<br><b>859</b> | PSIG - 12" PSIA<br><b>871</b> |
| Shut-In Pressure, Casing<br><b>865</b> | Flow Constant, F<br><b>7</b>       | Working Pressure, Pw<br><b>394</b>     | PSIG - 12" PSIA<br><b>406</b> |
| Flowing Pressure, P<br><b>172</b>      | Flow Constant, F<br><b>184</b>     | Flow From Tables<br><b>1.017</b>       | Gravity<br><b>.640</b>        |
| Temperature, T<br><b>61</b>            | Flow Constant, F<br><b>0.75</b>    |                                        |                               |

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

$$Q = (12.365)(184)(.9990)(.9682)(1.017)$$

**2238**

MCF/D

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

$$Aof = \left( \frac{769129}{604293} \right)^n (1.2727)^{.75} (2238) = (1.1981)(2238)$$

$$Aof = 2681 \text{ MCF/D}$$

TESTED BY **S. V. Roberts**

WITNESSED BY



*Lewis D. Galloway*  
L. D. Galloway

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