

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE **July 24, 1959**

|                                               |                             |                                     |                             |
|-----------------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| Operator<br><b>Benson-Martin-Greer</b>        |                             | Lease<br><b>Fullerton No. 1</b>     |                             |
| Location<br><b>790N, 790E; 34-28-13</b>       |                             | County<br><b>San Juan</b>           | State<br><b>New Mexico</b>  |
| Formation<br><b>Dakota</b>                    |                             | Pool<br><b>Undesignated</b>         |                             |
| Casing: Diameter<br><b>5-1/2</b>              | Set At: Feet<br><b>6362</b> | Tubing: Diameter<br><b>2"</b>       | Set At: Feet<br><b>6087</b> |
| Pay Zone: From<br><b>6186</b>                 | To<br><b>6266</b>           | Total Depth<br><b>6363 c/o 6311</b> | Shut in 5/26/59             |
| Stimulation Method<br><b>Sand Water Frac.</b> |                             | Flow Through Tubing<br><b>X</b>     |                             |

|                                               |                     |                                           |                                               |
|-----------------------------------------------|---------------------|-------------------------------------------|-----------------------------------------------|
| Choke Size, Inches<br><b>.75</b>              |                     | Choke Constant: C<br><b>12.365</b>        |                                               |
| Shut-In Pressure, Casing, PSIG<br><b>2052</b> | PSIA<br><b>2064</b> | Days Shut-In<br><b>59</b>                 | Shut-In Pressure, Tubing, PSIG<br><b>1999</b> |
| Flowing Pressure: P, PSIG<br><b>436</b>       | PSIA<br><b>448</b>  | Working Pressure: Pw, PSIG<br><b>1026</b> | PSIA<br><b>1038</b>                           |
| Temperature: T, F<br><b>67</b>                | F<br><b>.75</b>     | Fpv (From Tables)<br><b>1.039</b>         | Gravity<br><b>.631</b>                        |

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

$$Q = 12.365 \times 448 \times .9933 \times .9759 \times 1.039$$

5579

MCF/D

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

$$A_{of} = \left( \frac{4260096}{3182652} \right)^n \quad 1.3385^{.75} \times 5579 = 1.2445 \times 5579$$

$$A_{of} = 6943 \text{ MCF/D}$$

TESTED BY **S. V. Roberts**WITNESSED BY **Virgil Stoabs (EMC), Roy Eidal (Royal Dev. Corp.)**

*Lewis D. Galloway*  
L. D. Galloway



**OIL CONSERVATION COMMISSION**  
**AZTEC DISTRICT**

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