

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE **September 14, 1961**

|                                                                         |                                                                  |
|-------------------------------------------------------------------------|------------------------------------------------------------------|
| Operator<br><b>El Paso Natural Gas Company</b>                          | Lease<br><b>San Juan 28-5 No. 49</b>                             |
| Location<br><b>1550'N, 950'E, Sec. 23-28N-5W</b>                        | County<br><b>Rio Arriba</b> State<br><b>New Mexico</b>           |
| Formation<br><b>Mesa Verde</b>                                          | Pao<br><b>Blanco</b>                                             |
| Casing Diameter<br><b>7" O.D., 20.0 lbs.</b> Set At Feet<br><b>4679</b> | Tubing Diameter<br><b>2-3/8" O.D.</b> Set At Feet<br><b>6738</b> |
| Play Zone From<br><b>6584</b> To<br><b>6698</b>                         | Total Depth<br><b>6799 c/o 6765</b> Shot In<br><b>9-6-61</b>     |
| Stimulation Method<br><b>Sand/Water Frac.</b>                           | Flow Through Casing<br><b>X</b>                                  |

|                                               |                                   |                                                           |
|-----------------------------------------------|-----------------------------------|-----------------------------------------------------------|
| Choke Size, Inches<br><b>0.750"</b>           | Choke Constant C<br><b>12.365</b> | 4-1/2" O.D., 10.5 lbs. liner 4562 to 6799.                |
| Shut-In Pressure, Casing, PSIG<br><b>1097</b> | PSIG - 12 - PSIA<br><b>1109</b>   | Shut-In Pressure, Tubing, PSIG - 12 - PSIA<br><b>1110</b> |
| Flowing Pressure: P, PSIG<br><b>187</b>       | PSIG - 12 - PSIA<br><b>199</b>    | Working Pressure: Pw, PSIG - 12 - PSIA<br><b>546</b>      |
| Temperature:<br>T <b>62</b> F                 | Ft <b>.9981</b>                   | Fpv (From Tables)<br><b>1.021</b>                         |
|                                               | <b>.75</b>                        | Gravity<br><b>0.680</b> Fg <b>.9393</b>                   |

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

$$Q = (12.365)(199)(.9981)(.9393)(1.021)$$

**2355**

MCF/D

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

$$Aof \left( \frac{1,232,100}{920,736} \right)^n \quad (1.3381)^{.75}(2355) = (1.2440)(2355)$$

Aof **2930**

MCF/D

PREPARED BY **Dannie R. Roberts**

WITNESSED BY

Checked by: W. D. Dawson

*Lewis D. Galloway*  
L. D. Galloway

