

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE **November 28, 1960**

**DUAL COMPLETION**

Operator <b>La Plata Gathering System</b>		Lease <b>San Juan 32-5 No. 2-25 (DK)</b>	
Location <b>910'N, 1760'E, 25-32.6</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Dakota</b>		Pool <b>Undesignated</b>	
Casing: Diameter <b>5-1/2"</b>	Set At: Feet <b>8117</b>	Tubing: Diameter <b>2-1/16" "Hydril"</b>	Set At: Feet <b>7800</b>
Pay Zone: From <b>7952</b>	To <b>8084</b>	Total Depth <b>8118 P/B 8094</b>	Shut In <b>11-12-60</b>
Stimulation Method <b>Sand/Water Frac.</b>		Flow Through Casing	Flow Through Tubing <b>X</b>

Choke Size, Inches <b>0.750</b>	Choke Constant: C <b>12.365</b>	Shut-In Pressure, Casing, PSIG <b>(MV) 1160</b>	PSIA <b>1172</b>	Days Shut-In <b>16</b>	Shut-In Pressure, Tubing, PSIG <b>(DK) 2938</b>	PSIA <b>2950</b>
Flowing Pressure: P <b>71</b>	PSIG <b>83</b>	Working Pressure: P <sub>w</sub> <b>Calc. 243</b>	PSIG <b>243</b>	PSIA <b>243</b>	Temp: <b>71</b> °F	Fr. <b>.9896</b>
Temperature: <b>71</b> °F	Fr. <b>.9896</b>	Choke Constant: C <b>0.750</b>	F <sub>v</sub> (From Tables) <b>1.008</b>	Gravity <b>.650</b>	F <sub>g</sub> <b>.9608</b>	

**Initial SIPT (MV) = 1162 psig**

**Final SIPO (MV) = 1163 psig**

CHOKE VOLUME  $Q = C \times P_c \times F_r \times F_g \times F_v$

$$Q = (12.365)(83)(.9896)(.9608)(1.008) = 984 \text{ MCF/D}$$

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

$$\text{Aof} = \left( \frac{8,702,500}{8,643,451} \right)^n \cdot (1.0068)^{.75} (984) = (1.0051)(984)$$

Aof **989** MCF/D

TESTED BY **Tom Grant (EPNG)**

WITNESSED BY **Virgil Stoabs (BMG)**

Checked by **W. D. Dawson**

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

