

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE **December 14, 1959**

Operator El Paso Natural Gas		Lease San Juan 29-5 Unit No. 45-22	
Location 1090N, 990E; 22-29-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7	Set At: Feet 7884	Tubing: Diameter 1-1/4	Set At: Feet 6094
Pay Zone: From 5612	To 6050	Total Depth: 8276 c/o 8201	Shut In 12/3/59
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		Plugged Dakota Perfs. 5" liner 7795-8271	
Shut-In Pressure, Casing, 1105	PSIG · 12 · PSIA 1117	Days Shut-In 11	Shut-In Pressure, Tubing 1044	PSIG · 12 · PSIA 1056	
Flowing Pressure: P 201	PSIG · 12 · PSIA 213		Working Pressure: P _w 383	PSIG · 12 · PSIA 395	
Temperature: T 65 F	F _r .9952		F _{pv} (From Tables) 1.022	Gravity est. .680	F _g .9393

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

$$Q = 12.365 \times 213 \times .9952 \times .9393 \times 1.022$$

2516

MCF/D

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

$$Aof = \left(\frac{1247689}{1091664} \right)^n$$

$$1.1429^{.75} \times 2516 = 1.1053 \times 2516$$

$$Aof = 2781 \text{ MCF/D}$$

Unloaded tubing for 10 minutes. Blew large amount of liquid.

WITNESSED BY **D. Mortensen**

WITNESSED BY

Checked By **T. B. Grant**

Lewis D. Galloway
L. D. Galloway

