

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 3, 1959

Operator El Paso Natural Gas		Lease San Juan 28-7 No. 116	
Location 1749N, 1550E; 17-27-7		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 5-1/2	Set At: Feet 3465	Tubing: Diameter 1-1/4	Set At: Feet 3348
Pay Zone: From 3313	To 3315	Total Depth 3466 c/o	Shut In: 8/17/59
Simulation Method Sand Water Frac		Flow Through Casing X	
		Flow Through Tubing	

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-in Pressure, Casing 1001	PSIG - 12 PSIA	Days Shut-In 17	Shut-in Pressure, Tubing 1001
Flowing Pressure: P 177	PSIG - 12 PSIA		Working Pressure: P _w 188
Temperature: T 64	°F		Fpv (From Tables) 1.017
			Gravity .645

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

$$Q = 12.365 \times 189 \times .9962 \times .9645 \times 1.017$$

2284

MCF/D

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

$$Aof = \left(\frac{1026169}{986169} \right)^n = 1.0405^{.85} \times 2284 = 1.0343 \times 2284$$

$$Aof = 2362 \text{ MCF/D}$$

TESTED BY D. Mortensen

WITNESSED BY _____

Checked By T. B. Grant

Lewis D. Galloway
L. D. Galloway