

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 8, 1964

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 95	
Location 500'S, 100'W, Sec. 15, T-27-N, R-5-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 3535	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3408	To 3436	Total Depth: 3535	Shut In 6-26-64
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 988	+ 12 = PSIA 1000	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 325	+ 12 = PSIA 337	Working Pressure: P _w PSIG (Calc.)	+ 12 = PSIA 438		
Temperature: T = 61 °F	n = .85	F _{pv} (From Tables) 1.033	Gravity .650	F _g = .9608	

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

$$Q = (12.365) (337) (.9990) (.9608) (1.033) = 4132 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1000000}{808156} \right)^n = (4132) (1.2373)^{.85} = (4132) (1.1983)$$

$$A_{of} = 4951 \text{ MCF/D}$$

NOTE: Blew small amount of
water vapor entire test.

TESTED BY J. B. Goodwin

WITNESSED BY

CALCULATED BY W. D. Dawson

RECEIVED
JUL 13 1964
OIL CON. COM
DIST. 3

H. L. Kendrick