

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 16, 1962

Operator El Paso Natural Gas Company		Lease Grumbling No. 5	
Location 790S, 990E, Sec. 27, T-29N, R-9W		County San Juan	State New Mexico
Formation Pictured Cliff		Pool Aztec	
Casing Diameter 2.875	Set At: Feet 2174	Tubing Diameter No Tubing	Set At: Feet ----
Pay Zone: From 2048	To 2070	Total Depth: 2183	Shut In 8-7-62
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Throat Size, Inches .75	Choke Constant: C 12.365	Tubingless Completion	
Shut-In Pressure, Casing, PSIG 924	PSIG - 12 PSIA 936	Days Shut-In 9	Shut-In Pressure, Tubing, PSIG ----
Working Pressure, P, PSIG 206	PSIG - 12 PSIA 218	Working Pressure: Pw (Calc.)	PSIG - 12 PSIA 259
Temperature: 68	.9924	Flow From Tables: 1.020	Gravity .650
	.85		Fg .9608

$$\text{CHOKE VOLUME } Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = (12.365)(218)(.9924)(.9608)(1.020)$$

2622

MCF D

$$\text{OPEN FLOW } Aof = Q \left(\frac{P_1^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{876,096}{809,015} \right)^n (2622)(1.0829)^{.88} = (2622)(1.0700)$$

Aof 2806 MCF D

Checked by Tom B. Grant

Witnessed by

Checked by: W. D. Dawson



Lewis D. Galloway
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