

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 1, 1962

Operator El Paso Natural Gas Company		Lease Hardie "E" No. 4	
Location 1827'S, 1550'E, Sec. 16-28-8		County San Juan	State New Mexico
Formation Pictured Cliff		Pool Aztec	
Casing Diameter 2.875	Set At Feet 2431	Tubing Diameter No Tubing	Set At Feet ----
Play Zone: From 2280	To 2328	Total Depth: 2440	Shut In 7-23-62
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 1029	12 PSIA	Days Shut-In 9	Shut-In Pressure, Tubing, PSIG No Tubing	12 PSIA	----
Flowing Pressure: P, PSIG 80	12 PSIA	Working Pressure: Pw (Calc.)	12 PSIA		111
Temperature: 62		Fpv (From Tables) 1.007	Gravity .639	Fg .9721	
F = .9981	.85				

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

$$Q = (12.365)(92)(.9981)(.9721)(1.007)$$

1111

MCF D

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

$$A_{of} = \left(\frac{1,083,681}{1,071,360} \right)^n \quad (1.0115)^{.85}(1111) = (1.0098)(1111)$$

A_{of}

1122

MCF D

Prepared by **Jesse B. Goodwin**

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