

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 21, 1968

Operator El Paso Natural Gas Company		Lease Hargrave No. 4	
Location 800'N, 800'W, Sec. 4, T-27-N, R-10-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Fulcher- Kutz	
Casing: Diameter 2.875	Set At: Feet 2140	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2038	To 2062	Total Depth: 2140	Shut In 11-9-68
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless completion		
Shut-In Pressure, Casing, PSIG 339	+ 12 = PSIA 351	Days Shut-In 12	Shut-In Pressure, Tubing No Tubing	PSIG	+ 12 = PSIA ---	
Flowing Pressure: P 90	PSIG	+ 12 = PSIA 102	Working Pressure: P _w Calc.	PSIG	+ 12 = PSIA 121	
Temperature: T = 70 °F	F _t = .9905	n = .85	F _{pv} (From Tables) 1.008	Gravity .661	F _g = .9535	

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

Q = (12.365)(102)(.9905)(.9535)(1.008) = 1201 MCF/D

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

Aof = $\left(\frac{123201}{108560} \right)^n = (1201)(1.1348)^{.85} = (1201)(1.1135)$

Note: This well blew a heavy fog of water throughout the three hour test.

Aof = 1337 MCF/D

TESTED BY J. B. Goodwin

Calculated
WITNESSED BY G. A. Lippman



H. L. Kendrick
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