

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 6, 1967

Operator El Paso Natural Gas Company		Lease Roelofs A No. 5	
Location 1180'S, 1170'W, Sec. 14, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 7.000	Set At: Feet 3650	Tubing: Diameter 2.375	Set At: Feet 3412
Pay Zone: From 3436	To 3450	Total Depth: 7950 (PB 3509)	Shut In 11-26-67
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 990	+ 12 = PSIA 1002	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 990	+ 12 = PSIA 1002	
Flowing Pressure: P PSIG 62	+ 12 = PSIA 74		Working Pressure: P _w PSIG 206	+ 12 = PSIA 218	
Temperature: T = 58 °F	F _t = 1.0019	n = .85	F _{pv} (From Tables) 1.009	Gravity .650	F _g = .9608

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

Q = 12.365(74)(1.0019)(.9608)(1.009) = 889 MCF/D

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

Aof = $\left(\frac{1004004}{956480} \right)^n = (889)(1.0496)^{.85} = (889)(1.0420)$

NOTE: Well blew light fog & H₂O.

Aof = 926 MCF/D



TESTED BY Jesse B. Goodwin

CALCULATED

WITNESSED BY A. J. Loleit

H. L. Kendrick

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