

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 11, 1960

Operator EL PASO NATURAL GAS COMPANY		Lease Rincon Unit No. 151	
Location 1170'N, 1640'E, 14-27N-7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Undesignated	
Casing: Diameter 5-1/2"	Set At: Feet 7634	Tubing: Diameter 2"	Set At: Feet 7499
Pay Zone: From 7360	To 7514	Total Depth: 7637 c/o 7563	Shut In 8/18/60
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, inches 0.75"	Choke Constant: C 12.365		
Shut-In Pressure, Casing, PSIG 2537	+ 12 = PSIA 2549	Days Shut-In 54	Shut-In Pressure, Tubing, PSIG 2609
Flowing Pressure: P, PSIG 430	+ 12 = PSIA 442	Working Pressure: P _w , PSIG 1180	+ 12 = PSIA 1192
Temperature: T, F 74	n = 0.75	F _{pv} (From Tables) 1.068	Gravity, F _g .788 F _g = .8743

CHOKE VOLUME = Q · C · P₁ · x · F_v · x F_g · x F_{pv}

Q = (12.365)(442)(.9868)(.8743)(1.068) = 5036 MCF/D

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

Aof = $\left(\frac{6,869,641}{5,448,777} \right)^n = (1.2607)^{.75} (5036) = (1.1900)(5036)$

Aof = 5993 MCF/D

TESTED BY Jesse B. Goodwin

WITNESSED BY
Calculated by R. L. Nickell, Jr.

Checked by W. D. Dorman



Lewis D. Galloway
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