

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 27, 1961

Operator El Paso Natural Gas Company		Lease San Juan 27-5 No. 60	
Location 1650'N, 1060'E, Sec. 4-27N-5W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7" O.D.	Set At: Feet 3619	Tubing: Diameter 2-3/8" O.D.	Set At: Feet 5644
Pay Zone: From 5124	To 5606	Total Depth 5745 c/o 5686	Shut-in 10-10-61
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, inches .75		Choke Constant: C 12.365		4-1/2" O.D. Liner 3515 to 5737	
Shut-In Pressure, Casing, PSIG 1106	+ 12 PSIA	Days Shut-In 16	Shut-in Pressure, Tubing, PSIG 1106	+ 12 PSIA	1118
Flowing Pressure: P, PSIG 370	+ 12 PSIA	Working Pressure: Pw, PSIG 866	+ 12 PSIA		878
Temperature: T, °F 68	n =	Fpv (From Tables)	Gravity		
Ft = .9924	.75	1.037	.650	Fg = .9608	

CHOKE VOLUME = $Q = C \times P_r \times F_t \times F_g \times F_{pv}$

$$Q = (12.365)(382)(.9924)(.9608)(1.037) = 4670 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,249,924}{479,040} \right)^n = (2.6092)^{.75}(4670) = (2.0520)(4670)$$

Aof 9583 MCF/D

NOTE: Light fog of water throughout test.

TESTED BY C. R. Wagner

WITNESSED BY _____

Checked by: W. D. Dawson

Lewis D. Galloway
L. D. Galloway

