

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 23, 1961

Operator El Paso Natural Gas Company		Lease San Juan 28-6 No. 103	
Location 1770'S, 1850'W, Sec. 7-27N-6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4-1/2" O.D.	Set At: Feet 7729	Tubing: Diameter 2-3/8" O.D.	Set At: Feet 7638
Pay Zone: From 7448	To 7648	Total Depth: 7736 c/o 7662	Shut In 10-5-61
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 2703	+ 12 - PSIA	Days Shut-In 20 days	Shut-In Pressure, Tubing, PSIG 2638
Flowing Pressure: P, PSIG 270	+ 12 - PSIA	Working Pressure: P _w , PSIG 1072	+ 12 - PSIA
Temperature: 66 °F	n =	F _{pv} (From Tables) 1.028	Gravity .668
F _t = .9943	F _g = .9498		

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

$$Q = (12.365)(282)(.9943)(.9498)(1.028) = 3385 \text{ MCF/D}$$

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

$$Aof = \left(\frac{7371225}{6196169} \right)^n (1.1896)^{.75} (3385) = (1.1391)(3385)$$

$$Aof = 3856 \text{ MCF/D}$$

TESTED BY D. E. Mortensen

WITNESSED BY _____

Checked by: T. B. Grant

H. L. Kendrick
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