

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE **November 8, 1960**

Operator El Paso Natural Gas Company		Lease San Juan 32-8 No. 13-9	
Location 1120'S, 800'W, 9-31N-8W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3782	Tubing: Diameter 2"	Set At: Feet 5963
Pay Zone: From 5856	To 5974	Total Depth: 6090 c/o 6029	Shut In 10-12-60
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant: C 12.365	5-1/2" Liner from 3722 to 6084	
Shut-In Pressure, Casing, PSIG 1106	PSIA 1118	Days Shut-In 27	Shut-In Pressure, Tubing, PSIG 1106
Flowing Pressure: P (Tbg) PSIG 254	PSIA 266	Working Pressure: P _w (Csg) PSIG 647	PSIA 659
Temperature: T 68 F	F _r .9924	F _p (From Tables) 1.025	Gravity .650
	.75		F _g .9608

$$\text{CHOKE VOLUME } Q = C \times P_c \times F_r \times F_g \times F_{pv}$$

$$Q = (12.365)(266)(.9924)(.9608)(1.025)$$

$$3215 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1249924}{815643} \right)^n (1.5324)^{.75} (3215) = (1.3775)(3215)$$

$$A_{of} = 4429 \text{ MCF/D}$$

TESTED BY **D. E. Mortensen**

WITNESSED BY

Calculated by **W. D. Dawson**

Checked by **T. B. Grant**



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