

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE June 27, 1969

Operator El Paso Natural Gas		Lease Pierce No. 8	
Location 1180'S; 1775'E; S-8; T-30N; R-9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3087	Tubing: Diameter No tubing	Set At: Feet ----
Pay Zone: From 3024	To 3044	Total Depth: 3087	Shut In 5-27-69
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, 768	PSIG	+ 12 = PSIA 780	Days Shut-In 31	Shut-In Pressure, Tubing No tubing	PSIG
Flowing Pressure: P 158	PSIG	+ 12 = PSIA 170		Working Pressure: P _w Calc.	PSIG
Temperature: T = 59 °F		n = .85		F _{pv} (From Tables) 1.016	Gravity .670
F _t = 1.0010				F _g = .9463	

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

$$Q = 12.365 \times 170 \times 1.0010 \times .9463 \times 1.016 = \underline{2023} \text{ MCF/D}$$

Note: Blew dry gas for entire test.

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

$$Aof = \left(\frac{608400}{577775} \right)^n = (1.0530)^{.85} 2023 = 1.0456 (2023)$$

$$Aof = \underline{2115} \text{ MCF/D}$$

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TESTED BY RH & CRW
 Calculated
 APPROVED BY RES

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