

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 9-17-70

Operator El Paso Natural Gas Company		Lease Murphy No. 2	
Location 8455-939 W, S 24, T30N, R-11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2729	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2586	To 2620	Total Depth: 2729	Shut In 9-10-70
Stimulation Method S W F		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, 455	PSIG	+ 12 = PSIA 467	Days Shut-In 7	Shut-In Pressure, Tubing no tubing	PSIG
Flowing Pressure: P 180	PSIG	+ 12 = PSIA 192		Working Pressure: P _w Sale.	PSIG
Temperature: T = 69 °F		n = .85		F _{pv} (From Tables) 1.018	Gravity .650 F _g = .9608

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = 12.365 \times 192 \times .9915 \times .9608 \times 1.018 = \underline{2302} \text{ MCF/D}$$

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

Note: blew light fog of water throughout test.

$$Aof = \left(\frac{218089}{162393} \right)^n = (1.3429)^{.85} (2302) = 1.2848 \times 2302$$

$$Aof = \underline{2958} \text{ MCF/D}$$

TESTED BY Jesse B Goodwin

WITNESSED BY _____



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