

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 9-18-70

Operator El Paso Natural Gas Company		Lease Feuille "A" No. 4	
Location 1050 S, 1600 W, S 4, T29N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2422	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2304	To 2324	Total Depth: 2422	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, PSIG 617	+ 12 = PSIA 629	Days Shut-In 8	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 65	+ 12 = PSIA 77	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 93		
Temperature: T = 65 °F	n = Ft = .9952	Fpv (From Tables) 1.009	Gravity .665	Fg = .9498	

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

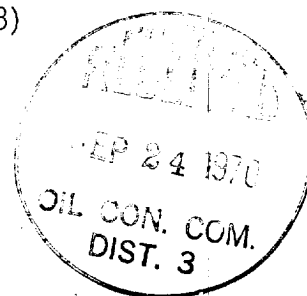
$$Q = 12.365 \times 77 \times .9952 \times .9498 \times 1.009 = \underline{908} \text{ MCF/D}$$

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

Note: Well blew dry gas.

$$Aof = \left(\frac{395641}{386992} \right)^n = (1.0223)^{.85} (908) = (1.0189) (908)$$

$$Aof = \underline{925} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

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