

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 9-16-70

Operator El Paso Natural Gas Company		Lease Nye No. 3	
Location 1500 N, 900 W, S 8, T29N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2230	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2108	To 2122	Total Depth: 2230	Shut In 9-8-70
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 511	+ 12 = PSIA 523	Days Shut-In 8	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 20	+ 12 = PSIA 32		Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 38	
Temperature: T = 66 °F	n =		Fpv (From Tables) 1.004	Gravity .665	Fg = .9498
Ft = .9943					

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

$$Q = 12.365 \times 32 \times .9943 \times .9498 \times 1.004 = 375 \text{ MCF/D}$$

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

Note: blew light fog of water throughout entire test.

$$Aof = \left( \frac{273529}{272085} \right)^n = (1.0053)^{.85} (375) = 1.0045 \times 375$$

$$Aof = 377 \text{ MCF/D}$$



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WITNESSED BY

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