

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 10-8-70

Operator El Paso Natural Gas Company		Lease Heaton No..25	
Location 1550 S, 1830 W, S 30, T31N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs Azt		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2573	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2366	To 2390	Total Depth: 2573	Shut In 9-25-70
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 650	+ 12 = PSIA 662	Days Shut-In 13	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 323	+ 12 = PSIA 335		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 408	
Temperature: T = 69 °F F _t = .9915	n = .85		F _p v (From Tables) 1.032	Gravity .650 F _g = .9608	

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

$$Q = 12.365 \times 335 \times .9915 \times .9608 \times 1.032 = \underline{4072} \text{ MCF/D}$$

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

Note: blew light fog of water for 3 hrs.

$$Aof = \left(\frac{438244}{271780} \right)^n = (1.6124)^{.85} (4072) = (1.5008) (4072)$$

$$Aof = \underline{6111} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____



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