

OPEN FLOW TEST DATA

DATE 8-19-71

Operator El Paso Natural Gas Company		Lease Hancock A No. 5	
Location 1820' N, 810' E, S 35, T28N, R9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2413	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2306	To 2344	Total Depth: 2413	Shut In 8-9-71
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 645	+ 12 = PSIA 657	Days Shut-In 10	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 207	+ 12 = PSIA 219	Working Pressure: P _w PSIG calculated	+ 12 = PSIA 264		
Temperature: T = 69 °F F _t = .9915	n = .85	F _{pv} (From Tables) 1.019	Gravity .645 F _g = .9645		

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

$$Q = 12.365 \times 219 \times .9915 \times .9645 \times 1.019 = \underline{2639} \text{ MCF/D}$$

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

Note: Well blew dry gas throughout test

$$Aof = \left(\frac{431649}{361953} \right)^n = 2639(1.1925)^{.85} = 2639(1.1613)$$

$$Aof = \underline{3065} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

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