

OPEN FLOW TEST DATA

DATE September 18, 1957

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 80	
Location 1800'N, 890'W, Sec. 16-27-7		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Wildcat	
Casing: Diameter 5-1/2	Set At: Feet 3182	Tubing: Diameter 1-1/4	Set At: Feet 3112
Pay Zone: From 3099	To 3135	Total Depth: 3190 - c/o 3145	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1025	+ 12 = PSIA 1037	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 1025	+ 12 = PSIA 1037	
Flowing Pressure: P PSIG 301	+ 12 = PSIA 313		Working Pressure: P _w PSIG 318	+ 12 = PSIA 330	
Temperature: T °F 71	n = .85		Fpv (From Tables) 1.028	Gravity .647	

$$\text{CHOKE VOLUME : } Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = 12.365 \times 313 \times .9896 \times .9645 \times 1.028 = 3797 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,075,369}{966,469} \right)^n = 1.1126^{.85} \times 3797 = 1.0949 \times 3797$$

$$Aof = 4157 \text{ MCF/D}$$

TESTED BY Richard Proctor

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