

OPEN FLOW TEST DATA

DATE May 1, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #169 (PC)	
Location 1058/N, 840/W, Sec. 9, T27N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3471'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3320'	To 3360'	Total Depth: PBT 4395' 3445'	Shut In 3-29-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 752	+ 12 = PSIA 764	Days Shut-In 33	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 102	+ 12 = PSIA 114	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 146		
Temperature: T = 60 °F F _t = 1.0000	n = .85	F _{pv} (From Tables) 1.009	Gravity .620	F _g = .9837	

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

$$Q = 12.365(114)(1.0000)(.9837)(1.0090) = 1399 \text{ MCF/D}$$

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

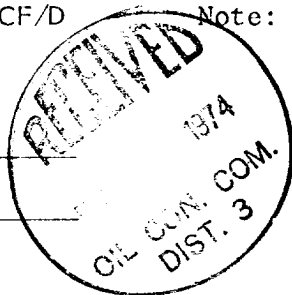
$$Aof = Q \left(\frac{583696}{562316} \right)^n = 1399(1.0380)^{.85} = 1399(1.0322)$$

$$Aof = 1444 \text{ MCF/D}$$

Note: The well produced a dry flow.

TESTED BY Rhames

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Well Test Engineer