

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 5, 1960

Operator El Paso Natural Gas Company		Lease Jicarilla No. 4-A	
Location 15508, 8402; 15-25N-4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco PC	
Casing: Diameter 2-1/2"	Set At: Feet 2499	Tubing: Diameter No Tubing	Set At: Feet -
Pay Zone: From 2572	To 2448	Total Depth: 2500 e/e 2488	Shut In 6/2/60
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing -

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 716	12 = PSIA 728	Days Shut-In 33	Shut-In Pressure, Tubing PSIG -	12 = PSIA -	
Flowing Pressure: P PSIG 13	12 = PSIA 25	Working Pressure: P _w PSIG Calc.	12 = PSIA 25		
Temperature: T 58 °F Ft = 1.0019	.85	F _{pv} (From Tables) 1.004	Gravity .650	F_g = .9608	

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = 12.365 \times 25 \times 1.0019 \times .9608 \times 1.004 = 299 \text{ MCF/D}$$

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

$$Aof = \left(\frac{529984}{529359} \right)^n$$

$$1.0011^{.85} \times 299 = 1.0009 \times 299$$

$$Aof = 299 \text{ MCF/D}$$

TESTED BY Frank M. ClarkWITNESSED BY
Checked By Bob Nickell

Lewis D. Galloway
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