

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 18, 1967

Operator El Paso Natural Gas Company		Lease San Juan 23-5 Unit No. 69	
Location 1180'N, 1550'E, Sec. 33, T-28-N, R-5-W		County San Juan	State New Mexico
Formation Del Norte		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7910	Tubing: Diameter 2.375	Set At: Feet 7591
Pay Zone: From 7632	To 7830	Total Depth: 7910	Shut In 10-10-67
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2550	+ 12 = PSIA 2571	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2550	+ 12 = PSIA 2571	
Flowing Pressure: P PSIG 335	+ 12 = PSIA 335		Working Pressure: P _w PSIG 1155	+ 12 = PSIA 1167	
Temperature: T = 79 °F	F _t = .9822	n = .750	F _{pv} (From Tables) 1.023	Gravity .600	F _g = 1.000

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

$$Q = (12.365)(335)(.9822)(1.000)(1.023) = \underline{4162} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6610041}{5248152} \right)^n = (4162)(1.2594)^{.75} = (4162)(1.1888)$$

NOTE: The well produced a light fog of dist. and water throughout the test.

$$Aof = \underline{4948} \text{ MCF/D}$$

TESTED BY HortonCALCULATED
WITNESSED BY H. E. McAnally

H. L. Kendrick
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