

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE March 1, 1963

Operator El Paso Natural Gas Company		Lease San Juan Unit 29-6 No. 74	
Location 1750'N, 800'E, Sec. 20-29-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7.625	Set At: Feet 3520	Tubing: Diameter 2.375	Set At: Feet 5441
Pay Zone: From 5052	To 5504	Total Depth: 5600	Shut In 12-31-62
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		5" Liner 3418 to 5591'.	
Shut-In Pressure, Casing, PSIG 1099	• 12 = PSIA 1111	Days Shut-In 60	Shut-In Pressure, Tubing PSIG 1098	• 12 = PSIA 1110	
Flowing Pressure: P PSIG 402	• 12 = PSIA 414		Working Pressure: P _w PSIG 912	• 12 = PSIA 924	
Temperature: T = 70 °F	F _r = .9905		F _{pv} (From Tables) 1.039	Gravity .650	F _g = .9608

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

$$Q = (12.365)(414)(.9905)(.9608)(1.039) = \underline{5062} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,234,321}{380,545} \right)^n (3.2435)^{.75} (5062) = (2.4190)(5062)$$

$$Aof = \underline{12,245} \text{ MCF/D}$$

TESTED BY Dannie RobertsChecked by H. E. McAnally

Lewis D. Galloway
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