

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 10-6-66

Operator El Paso Natural Gas Company		Lease San Juan 28-4 Unit No. 103	
Location 300th, Twp. 16, N-28-E, 1-6-66		County Rio Arriba	State New Mexico
Formation Gallup		Pool Gallup	
Casing: Diameter 4.516	Set At: Feet 6000	Tubing: Diameter 2.375	Set At: Feet 7809
Pay Zone: From 7805	To 8034	Total Depth: 6000	Shut In 9-22-66
Stimulation Method None		Flow Through Casing	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 335	+ 12 = PSIA 347	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2550	+ 12 = PSIA 2562	
Flowing Pressure: P PSIG 200	+ 12 = PSIA 212		Working Pressure: P _w PSIG 2168	+ 12 = PSIA 2180	
Temperature: T = 72 °F	n = .75		F _{pv} (From Tables) 1.005	Gravity .800	F _g = 1.000

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

$$Q = (12.365)(335)(.9924)(1.000)(1.005) = 4214 \text{ MCF/D}$$

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

$$Aof = \left(\frac{656590}{5171444} \right)^n = (4214)(1.2692)^{.75} = (4214)(1.1957)$$

$$Aof = 5032 \text{ MCF/D}$$

NOTE: Well unloaded slight amount of dist. after 2 min. then a very light fog throughout the remainder of the test.



TESTED BY Johnny
WITNESSED BY McAnelly

H. L. Kendrick
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