

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 5-28-71

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 128	
Location 1700'S, 1840'W, S 27, T27N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7699	Tubing: Diameter 1.990	Set At: Feet 7669
Pay Zone: From 7444	To 7670	Total Depth: 7699	Shut In
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1722	+ 12 = PSIA 1734	Days Shut-In	Shut-In Pressure, Tubing PSIG 2017	+ 12 = PSIA 2029	
Flowing Pressure: P PSIG 253	+ 12 = PSIA 265		Working Pressure: P _w PSIG 435	+ 12 = PSIA 447	
Temperature: T = 65 °F	n = .75		F _{pv} (From Tables) 1.025	Gravity .655	F _g = .9571

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

$$Q = 12.365 \times 265 \times .9952 \times .9571 \times 1.025 = \underline{3199} \text{ MCF/D}$$

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

Note: The well unloaded a heavy fog of water and distillate in approximately 4 minutes and a light to medium fog of water and distillate throughout the remainder of the test.

$$Aof = \left(\frac{4116841}{3917032} \right)^n = (3198)(1.0510)^{.75} = (3198)(1.0379)$$

$$Aof = \underline{3321} \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY _____

H. L. Kendrick
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