

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 5, 1975

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #212	
Location 1570'N, 790'W, Sec. 27, T-27-N, R-7-W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undesignated	
Casing: Diameter 2.875	Set At: Feet 4102'	Tubing: Diameter no tubing	Set At: Feet ---
Pay Zone: From 3942'	To 3986'	Total Depth: 4102' PBTD 4092'	Shut In 7-23-75
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches: 0.75		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 1050	+ 12 = PSIA 1062	Days Shut-In 13	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA ---	
Flowing Pressure: P PSIG 22	+ 12 = PSIA 34		Working Pressure: P _w PSIG calculated	+ 12 = PSIA 45	
Temperature: T = 67°F	F _t = .9933	n = 0.75	F _{pv} (From Tables) 1.004	Gravity .655	F _g = .9571

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

$$Q = (12.365)(34)(.9933)(.9571)(1.004) = \underline{\quad 401 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1127844}{1125819} \right)^n = (401)(1.0018)^{.75} = (401)(1.0013)$$

$$Aof = \underline{\quad 402 \quad} \text{ MCF/D}$$



Note: Well blew heavy fog of water at first of test and light fog of water throughout rest of test. 61.70 MCF of gas was vented to the atmosphere during the test.

TESTED BY Johnson

WITNESSED BY _____

Charles W. Deim
Well Test Engineer