

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 25, 1969

Operator El Paso Natural Gas Company		Lease Klein No. 14	
Location 1050'S, 1840'E, Sec. 35, T-2-N, R-6-W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing: Diameter 2.875	Set At: Feet 3598	Tubing: Diameter No Tubing	Set At: Feet ---
Pay Zone: From 3420	To 3526	Total Depth: 3598	Shut In 11-15-69
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 830	+ 12 = PSIA 842	Days Shut-In 10	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA ---	
Flowing Pressure: P PSIG 113	+ 12 = PSIA 125		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 161	
Temperature: T = 59 °F	F _t = 1.0010	n = 0.85	F _{pv} (From Tables) 1.012	Gravity .660 F _g = .9535	

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

$$Q = (12.365)(125)(1.0010)(.9535)(1.012) = 1493 \text{ MCF/D}$$

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

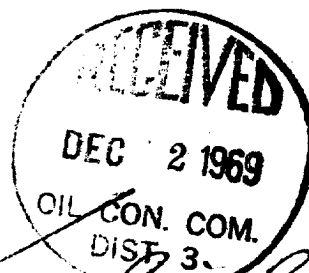
$$Aof = \left(\frac{708964}{683043} \right)^n = (1.0379)^{.85}(1493) = (1.0321)(1493)$$

Note: Well blew medium fog of water and distillate throughout test.

$$Aof = 1541 \text{ MCF/D}$$

TESTED BY Don Norton

WITNESSED BY



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