

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 21, 1969

Operator El Paso Natural Gas Company		Lease Jicarilla 67 No. 12	
Location 950N, 850W, S19-T25N-R5W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing: Diameter 2.875	Set At: Feet 3565	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone: From 3390	To 3498	Total Depth: 3565	Shut In 7-28-69
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 685	+ 12 = PSIA 697	Days Shut-In 24	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ---
Flowing Pressure: P _o PSIG 39	+ 12 = PSIA 51		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 65
Temperature: T = 59 °F	F _t = 1.0010	n = .75	F _{pv} (From Tables) 1.004	Gravity .670 F _g = .9463

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

$$Q = (12.365)(51)(1.0010)(.9463)(1.004) = \underline{600} \text{ MCF/D}$$

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

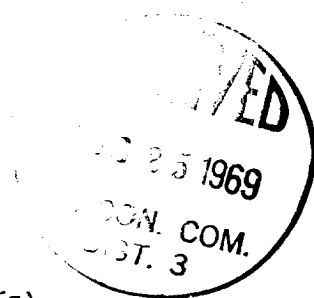
$$Aof = \left(\frac{485809}{481584} \right)^n = (600)(1.0087)^{.75} = (600)(1.0065)$$

$$Aof = \underline{604} \text{ MCF/D}$$

TESTED BY JBG

WITNESSED BY _____

H. L. Kendrick
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Note: Blew light fog of water throughout test.