

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8/30/72

Operator El Paso Natural Gas Company		Lease Hardie "E" #6	
Location 1500/W, 1490/E, Sec. 23-T28N-R8W		County San Juan	State NM
Formation Pictured Cliffs <i>Ept.</i>		Pool Undesignated <i>So. Blanco</i>	
Casing: Diameter 2.375	Set At: Feet 2926	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2804	To 2870	Total Depth: 2926	Shut In 8/22/72
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, 1002 PSIG	+ 12 = PSIA 1014	Days Shut-In 8	Shut-In Pressure, Tubing no tubing PSIG	+ 12 = PSIA	
Flowing Pressure: P 88 PSIG	+ 12 = PSIA 100	Working Pressure: P _w Calculated PSIG	+ 12 = PSIA 124		
Temperature: T = 61 °F	F _t = .9990	n = .85	F _{pv} (From Tables) 1.009	Gravity .650	F _g = .9608

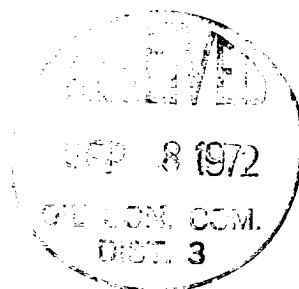
$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365)(100)(.9990)(.9608)(1.009) = \underline{1198} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1.028196}{1.012820} \right)^n = (1198)(1.0152)^{.85} = (1198)(1.0129)$$

$$Aof = \underline{1213} \text{ MCF/D}$$



NOTE: Blew Dry gas entire test

TESTED BY Jesse Goodwin

WITNESSED BY _____

J. A. Jones
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Well Test Engineer