

CCF

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 11/27/72

Operator EL PASO NATURAL GAS COMPANY		Lease Neil #13	
Location 1180'N, 800'W, Sec. 14 -T31N, R11W		County San Juan	State NM
Formation Pictured Cliffs		Pool Blanco Ext.	
Casing: Diameter 2.875	Set At: Feet 2905	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2755	To 2800	Total Depth: 2905	Shut In 11/19/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 905	+ 12 = PSIA 917	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 226	+ 12 = PSIA 238		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 296	
Temperature: T = 67 °F	F _t = .9933	n = .85	F _{pv} (From Tables) 1.020	Gravity .635	F _g = .9721

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

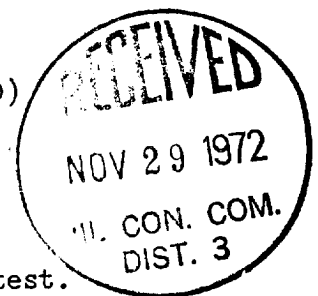
$$Q = (12.365)(238)(.9933)(.9721)(1.020) = \underline{2898} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{840889}{753273} \right)^n = 2898 (1.1163)^{.85} = 2898 (1.0980)$$

$$Aof = \underline{3182} \text{ MCF/D}$$

NOTE: Blew dry gas thru test.

TESTED BY Rhames

WITNESSED BY _____

William D Welch
William D. Welch
Well Test Engineer