

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 4/23/73

Operator El Paso Natural Gas Company		Lease Florance C #15	
Location 1840'/N, 990'/E. Sec. 19, T28N, R8W		County San Juan	State NM
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2280	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2156	To 2216	Total Depth: 2303	Shut In 4/12/73
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 851	+ 12 = PSIA 863	Days Shut-In 11	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 84	+ 12 = PSIA 96	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 115		
Temperature: T = 60 °F	n = 1.000	F _{pv} (From Tables) 1.007	Gravity .645	F _g = .9645	

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

$$Q = (12.365)(96)(1.000)(.9645)(1.007) = 1153 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{744769}{731544} \right)^n = 1153 (1.0181)^{.85} = 1153 (1.0153)$$

$$Aof = 1172 \text{ MCF/D}$$

NOTE: The well produced dry gas.

TESTED BY C. Rhames

WITNESSED BY _____

William D. Welch
William D. Welch, Well Test Engineer

