

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 27, 1973

Operator El Paso Natural Gas Company		Lease Grambling "A No. 8	
Location 840'N, 1090'W, Section 28, T28N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 2.875	Set At: Feet 2275	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2140	To 2206	Total Depth: 2275	Shut In 4-12-73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 943	+ 12 = PSIA 955	Days Shut-In 15	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 87	+ 12 = PSIA 99		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 118	
Temperature: T = 60 °F	n = .85		F _{pv} (From Tables) 1.007	Gravity .645	F _g = .9645

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

$$Q = 12.365 \times 99 \times 1.000 \times .9645 \times 1.007 = \underline{1189} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{912025}{898101} \right)^{.85} = (1189)(1.0155)^{.85} = (1189)(1.0132)$$

$$Aof = \underline{1205} \text{ MCF/D}$$

TESTED BY Don Norton

WITNESSED BY _____



William D. Welch, Well Test Engineer