

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE April 26, 1973

Operator El Paso Natural Gas Company		Lease Grambling "A" No. 7	
Location 1500'S, 1700'W, Section 22, T28N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco <del>BL</del> .	
Casing: Diameter 2.875	Set At: Feet 2435	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2282	To 2344	Total Depth: 2435	Shut In 4-16-73
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 942	+ 12 = PSIA 954	Days Shut-In 10	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 231	+ 12 = PSIA 243	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 294		
Temperature: T = 63 °F	Ft = .9971	n = .85	Fpv (From Tables) 1.023	Gravity .645	Fg = .9645

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = (12.365) (243) (.9971) (.9645) (1.023) = 2956 \text{ MCF/D}$$

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

NOTE: The well produced dry gas.

$$Aof = Q \left( \frac{910116}{823680} \right)^n = 2956 (1.1049)^{.85} = 2956 (1.0885)$$

$$Aof = 3219 \text{ MCF/D}$$

TESTED BY Don Norton

WITNESSED BY

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

