

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 23, 1973

Operator El Paso Natural Gas Company		Lease Cox Canyon Unit No. 11	
Location 910'S, 850'E, Section 21, T32N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 2.875	Set At: Feet 3444	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3266	To 3286	Total Depth: 3465	Shut In 5-14-73
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 902	+ 12 = PSIA 914	Days Shut-In 9			
Flowing Pressure: P PSIG 175	+ 12 = PSIA 187	Working Pressure: P _w PSIG Calculated		+ 12 = PSIA 239	
Temperature: T = 66 °F	F _t = .9943	n = .85	F _p v (From Tables) 1.016	Gravity .635	F _g = .9721

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

$$Q = (12.365) (187) (.9943) (.9721) (1.016) = \underline{2271} \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = Q \left(\frac{835396}{778275} \right)^n = 2271 (1.0734)^{.85} = 2271 (1.0621)$$

$$Aof = \underline{2413} \text{ MCF/D}$$



TESTED BY Tommy Norton

WITNESSED BY _____

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