

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 23, 1973

Operator El Paso Natural Gas Company		Lease Cox Canyon Unit No. 10	
Location 1500'N, 900'E, Section 21, T32N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco Ext.	
Casing: Diameter 2.875	Set At: Feet 3440	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3250	To 3280	Total Depth: 3440	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 907	+ 12 = PSIA 919	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 111	+ 12 = PSIA 123	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 157		
Temperature: T = 64 °F	Ft = .9962	n = .85	Fpv (From Tables) 1.011	Gravity .635	Fg = .9721

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

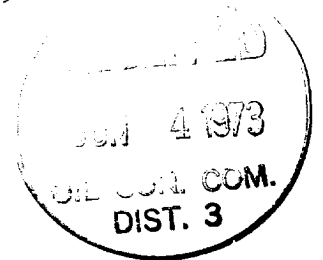
$$Q = (12.365)(123)(.9962)(.9721)(1.011) = 1489 \text{ MCF/D}$$

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

NOTE: The well produced dry gas.

$$Aof = Q \left(\frac{844561}{819912} \right)^n = 1489 (1.0301)^{.85} = 1489 (1.0255)$$

$$Aof = 1528 \text{ MCF/D}$$

TESTED BY Tommy Norton

WITNESSED BY _____

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

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