

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 4-15-71

Operator El Paso Natural Gas Company		Lease Case No. 11	
Location 1800 S, 1180 E, S 19, T31N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2605	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2504	To 2544	Total Depth: 2610	Shut In 4-8-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 604	+ 12 = PSIA 616	Days Shut-In 7	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 79	+ 12 = PSIA 91	Working Pressure: Pw PSIG calc.	+ 12 = PSIA 111		
Temperature: T = 64 °F	Ft = .9962	n = .85	Fpv (From Tables) 1.004	Gravity .675	Fg = .9427

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

$$Q = 12.365 \times 91 \times .9962 \times .9427 \times 1.004 = 1061 \text{ MCF/D}$$

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

Note: Well blew dry gas throughout the entire test.

$$Aof = \left(\frac{379456}{367135} \right)^n = (1061)(1.0335)^{.85} = (1061)(1.0284)$$

$$Aof = 1091 \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY

H. L. Kendrick
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