

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 29, 1971

Operator El Paso Natural Gas Company		Lease Klein No. 16	
Location 1720'S, 1840'W, S 33, T26N, R6W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing: Diameter 2.875	Set At: Feet 3917	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3740	To 3850	Total Depth: 3917	Shut In 10-15-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 660	+ 12 = PSIA 672	Days Shut-In 14	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 49	+ 12 = PSIA 61		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 80	
Temperature: T = 57 °F	n = 0.75		F _{pv} (From Tables) 1.004	Gravity .650	F _g = 0.9608

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

$$Q = (12.365)(61)(1.0029)(.9608)(1.004) = \underline{730} \text{ MCF/D}$$

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

NOTE: Well produced a medium spray of water and distillates throughout the test.

$$Aof = \left(\frac{451584}{445184} \right)^n = (1.0144)^{.75} (730) = (1.0108)(730) = 738$$

$$Aof = \underline{738} \text{ MCF/D}$$

TESTED BY Dan Roberts

WITNESSED BY _____

L. E. Mabe, Jr.
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