

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8-23-71

Operator El Paso Natural Gas Company		Lease Howell No. <u>10</u>	
Location 705' N, 1900' W, S 35, T28N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2796	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2640	To 2700	Total Depth: 2796	Shut In 8-13-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 935	+ 12 = PSIA 947	Days Shut-In 10	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 125	+ 12 = PSIA 137		Working Pressure: P _w PSIG calculated	+ 12 = PSIA 169	
Temperature: T = 66 °F	F _t = 9943	n = .85	F _{pv} (From Tables) 1.012	Gravity .650 F _g = .9608	

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

$$Q = 12.365 \times 137 \times .9943 \times .9608 \times 1.012 = 1638 \text{ MCF/D}$$

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

Note: Well blew light spray of water and distillates throughout test.

$$Aof = \left(\frac{896809}{868248} \right)^n = 1638(1.0328)^{.85} = 1638(1.0277)$$

$$Aof = 1684 \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY

L. E. Mabe, Jr.
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