

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 1, 1967

Operator El Paso Natural Gas Company		Lease Mesquite 92 No. 9	
Location 16 1/4, 16 1/4, Sec. 31, T-27-N, R-3-W		County El Paso	State New Mexico
Formation Permian Gyps		Pool Permian	
Casing: Diameter 10 1/2	Set At: Feet 841	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From	To 840	Total Depth: 840	Shut In 7-1-67
Stimulation Method None		Flow Through Casing N	Flow Through Tubing

Choke Size, Inches 1.75		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, 1050	PSIG	+ 12 = PSIA 1100	Days Shut-In 17	Shut-In Pressure, Tubing no tubing	PSIG + 12 = PSIA
Flowing Pressure: P 77	PSIG	+ 12 = PSIA 89		Working Pressure: Pw Calc.	PSIG + 12 = PSIA 117
Temperature: T = 57 °F	F _t = 1.0029	n = .85		Fpv (From Tables) 1.007	Gravity .630 Fg = .9759

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

$$Q = (12.365)(89)(1.0029)(.9759)(1.007) = 1085 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1227664}{1213975} \right)^{.85} = (1085)(1.0112)^{.85} = (1085)(1.0095)$$

$$Aof = 1095 \text{ MCF/D}$$

TESTED BY Dan Roberts

WITNESSED BY T. B. Grant



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