

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE March 4, 1958

Operator El Paso Natural Gas Company		Lease Alamogordo No. 4	
Location T-47-N, R-3-W, Sec. 31, T-47-N, R-3-W		County Rio Arriba	State New Mexico
Formation T-47-N		Pool T-47-N	
Casing: Diameter 10.75	Set At: Feet 4000	Tubing: Diameter 2.375	Set At: Feet 4000
Pay Zone: From 4000	To 4000	Total Depth: 4000	Shut In 7-10-57
Stimulation Method Sand Water Frac		Flow Through Casing N	Flow Through Tubing N

Choke Size, Inches 1.315		Choke Constant: C 12.365		Completion Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1000	+ 12 = PSIA 1003	Days Shut-In 17	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 155	+ 12 = PSIA 165	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA		
Temperature: T = 57 °F	n = .85	F _{pv} (From Tables) 1.014	Gravity .630	F _g = .9759	

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

$$Q = (12.365)(165)(1.0029)(.9759)(1.014) = \underline{2025} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1172882}{1124928} \right)^n = (2025)(1.0426)^{.85} = (2025)(1.0361)$$

$$Aof = \underline{2098} \text{ MCF/D}$$

TESTED BY Dennie R. Roberts

WITNESSED BY T. B. Grant

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