

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CONTINUED COPY

DATE November 18, 1964

Operator El Paso Natural Gas Company		Lease Hudson No. 3	
Location 1610'S, 930'W, Sec. 8, T-29-N, R-12-W		County San Juan	State New Mexico
Formation Pebble		Well Pebble	
Casing Diameter 4.500	Set At: Feet 6283	Tubing: Diameter 2.375	Set At: Feet 6113
Pay Zone: From 6113	To 6229	Total Depth: 6283	Shut In 11-10-64
Stimulation Method Sand Water Prac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 2085	+ 12 = PSIA 2087	Days Shut-in 8	Shut-In Pressure, Tubing PSIG 2077
Flowing Pressure: P PSIG 286	+ 12 = PSIA 298	Working Pressure: P _w PSIG 775	+ 12 = PSIA 787
Temperature: T = 81 °F	F _t = .9804	n = .750	F _{pv} (From Tables) 1.035
		Gravity .750 F _g = .8944	

$$\text{CHOKE VOLUME} = Q = C \times P_t \times \bar{F}_t \times F_g \times F_{pv}$$

$$Q = (12.365)(298)(.9804)(.8944)(1.035) = 3344 \text{ MCF/D}$$

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

$$Aof = \left(\frac{4,363,921}{3,744,552} \right)^n = (1.1654)^{.75} = (1.1215)(3344) =$$

NOTE: Blew light to heavy water fog with some light hydrocarbons.

$$Aof = 3750 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin
Checked
WITNESSED BY Tom B. Grant



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