

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 23, 1964

Operator La Plata Gathering System		Lease Houck No. 2-12	
Location 930'S, 1190'W, Sec. 12, T-29-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 14.500	Set At: Feet 6859	Tubing: Diameter 2.375	Set At: Feet 6517
Pay Zone: From 6566	To 6741	Total Depth: 6859	Shut In 7-11-64
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365	
Shut-in Pressure, Casing, PSIG 2059	+ 12 = PSIA 2071	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2061
Flowing Pressure: P PSIG 225	+ 12 = PSIA 237	Working Pressure: P _w PSIG 911	+ 12 = PSIA 923
Temperature: T = 72 °F	n = .75	F _{pv} (From Tables) 1.025	Gravity .700 F _g = .9258

CHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}

$$Q = (12.365)(237)(.9887)(.9258)(1.025) = 2749 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1297329}{3445400} \right)^n = (2749)(1.2172)^{.75} = (2749)(1.1801)$$

NOTE: Well produced a heavy spray of Dist. & Water throughout the test.

$$Aof = 3244 \text{ MCF/D}$$

TESTED BY Hermon E. McAnally (EPNG)

WITNESSED BY Oliver Towell (La Plata)

Checked by W. D. Dawson



Lewis D. Galloway
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