

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 23, 1962

Operator El Paso Natural Gas Company		Lease San Juan Unit 27-5 No. 86	
Location 1190'S, 550'W, Sec. 9-27-5		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4 1/2"	Set At: Feet 7991	Tubing: Diameter 2.375	Set At: Feet 7905
Pay Zone: From 7733	To 7924	Total Depth: 7986 C/O 7940	Shut In 10-6-62
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 2529	PSIA 2541	Days Shut-In 17	Shut-In Pressure, Tubing, PSIG 2569
Flowing Pressure: P, PSIG 398	PSIA 410	Working Pressure: P _w , PSIG 1388	PSIA 1400
Temperature: T, °F 72	Ft. .9887	F _{pv} (From Tables) 1.052	Gravity .730
	.750		F _g .9066

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

$$Q = (12.365)(410)(.9887)(.9066)(1.052) \quad 4781 \quad \text{MCF/D}$$

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

$$\text{Aof} \left(\frac{6,661,561}{4,701,561} \right)^n \quad (1.4168)^{.75} \quad (4781) = (1.2990)(4781) =$$

NOTE: Blew heavy fog H₂O and light hydrocarbons entire test.

$$\text{Aof} \quad 6211 \quad \text{MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

Checked by W. D. Dawson


H. L. Kendrick
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