

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE 9 August 1956

Operator El Paso Natural Gas Company		Lease Jicarilla 3-E	
Location 810S, 1545W, Sec. 18-25-4		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing Diameter 5½	Set At: Feet 3340	Tubing Diameter 2"	Set At: Feet 3225
Flow Zone: From 3251	To 3310	Total Depth: 3340	c/o 3325
Stimulation Method Sand water frac		Flow Through Casing	Flow Through Tubing X

Choke size, Inches 0.750	Choke Constant, C 14.1605		
Shut-In Pressure, Casing, PSIG 1035	PSIA 1047	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 1034
Working Pressure, P, PSIG 480		PSIA 492	Working Pressure, P _w , PSIG 870
Temperature, F 67	F _g 0.85	F _{gv} (From Tables) 1.051	Gravity 0.665 (est)

CHOKE VOLUME: $Q = C \times P_r \times F_g \times F_v \times F_{gv}$

$$Q = 14.1605 \times 492 \times .9933 \times .9498 \times 1.051 = 6908 \text{ MCF/D}$$

OPEN FLOW: $A_{of} = Q \left(\frac{P_c^2}{P_r^2 - P_w^2} \right)^{1/n}$

$$A_{of} = \left(\frac{1,096,209}{318,285} \right)^{1/(3.444) \cdot .85} Q = 2.863 (Q)$$

$$A_{of} = 19,778 \text{ MCF/D}$$

TESTED BY D. C. Adams

WITNESSED BY _____



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