

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 7, 1959

Operator El Paso Natural Gas Company		Lease Vaughn No. 5	
Location 19008, 690W; 29-26-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 5-1/2	Set At: Feet 2980	Tubing: Diameter 1-1/4	Set At: Feet 2925
Pay Zone: From 2906	To 2930	Total Depth: e/o 2945	Shut In 11/29/59
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 785	+ 12 = PSIA 797	Days Shut-In 8	Shut-In Pressure, Tubing, PSIG 785
Flowing Pressure: P, PSIG 271	+ 12 = PSIA 283	Working Pressure: P _w , PSIG 284	+ 12 = PSIA 296
Temperature: T, °F 63	F _t = .9971	F _{pv} (From Tables) 1.032	Gravity est. .695
	F _g = .85		F _g = .9292

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

$$Q = 12.365 \times 283 \times .9971 \times .9292 \times 1.032 = 3346 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{635209}{547593} \right)^n = 1.1600^{.85} \times 3346 = 1.1345 \times 3346$$

$$A_{of} = 3796 \text{ MCF/D}$$

TESTED BY D. MortensenWITNESSED BY
Checked By T. B. Grant

Lewis D. Galloway
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