

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 4, 1961

Operator El Paso Natural Gas Company		Lease Hancock "A" No. 3	
Location 850'S, 1450'E, Sec. 35-28N-9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool South Blanco PC	
Casing Diameter 2-7/8" O.D.	Set At: Feet 2285	Tubing Diameter No Tubing	Set At: Feet ---
Flow Zoned From 2135	2175	Total Depth 2293 C/O 2283	Shut In 4-25-61
Completion Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75	Choke Constant, C 12.365	"Tubingless Completion"	
Shut-In Pressure, Casing, PSIG 788	PSIA 800	Days Shut-In 9	Shut-In Pressure, Tubing, PSIG ---
Flowing Pressure, P, PSIG 234	PSIA 246	Working Pressure, P _w , PSIG (Calc.) 294	Flowing Pressure, P _w , PSIG ---
Temperature 66	.9943	Flow From Tables 1.023	Gravity .650
	.85		.9608

CHOKE VOLUME, Q = C × P₁ × F₁ × F_g × F_v

$$Q = (12.365)(246)(.9943)(.9608)(1.023)$$

2973

MCF/D

OPEN FLOW, Act = Q

$$\left(\frac{P_1^2 - P_2^2}{P_1^2 - P_2^2} \right)^n$$

$$\text{Act} = \left(\frac{640,000}{553,564} \right)^n$$

$$(1.1561)^{.85}(2973) = (1.1312)(2973)$$

Act **3363**

MCF/D

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