

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE March 15, 1957

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit # 70	
Location 993'S, 990'W, Sec. 25-27-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Wildcat	
Casing: Diameter 5½	Set At: Feet 5569	Tubing: Diameter 1¼	Set At: Feet 3237
Pay Zone: From 3212	To 3256	Total Depth 5570 - o/o - 5525. Packer at 3366	
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.75		Choke Constant: C 14.1605			
Shut-In Pressure, Casing, PSIG 1000	- 12 = PSIA 1012	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 1000	- 12 = PSIA 1012	
Flowing Pressure: P PSIG 325	- 12 = PSIA 337		Working Pressure: P _w PSIG 334	- 12 = PSIA 346	
Temperature: T °F 67			F _{pv} (From Tables) 1.031	Gravity .650	

SIPT (Mesa Verde) - 1059 psig

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

$$Q = 14.1605 \times 337 \times .9933 \times .9608 \times 1.031 = 4695 \text{ MCF/D}$$

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

$$A_{of} \left(\frac{1,024,144}{904,428} \right)^n (1.1323)^{.85} \times 4695 = 1.1113 \times 4695$$

$$A_{of} = 5218 \text{ MCF/D}$$

TESTED BY K. C. McBride

WITNESSED BY _____

cc: E. J. Coel, Jr. (6)

L. D. Galloway
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