

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 1, 1957

Operator El Paso Natural Gas Company		Lease Jicarilla # 2-F	
Location 990'S, 990'W, Sec. 22-26-5		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Wildcat	
Casing: Diameter 5 1/2	Set At: Feet 3121	Tubing: Diameter 1 1/2	Set At: Feet 3079
Pay Zone: From 3036	To 3084	Total Depth: 3200 - c/o - 3121	
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 1043	12 - PSIA 1055	Days Shut-In 15	Shut-In Pressure, Tubing, PSIG 1043
Flowing Pressure: P, PSIG 248	12 - PSIA 260		Working Pressure: Pw, PSIG 290
Temperature: T, F 62	n .85		Fpv (From Tables) 1.025
			Gravity .650

CHOKE VOLUME = Q C x P_i x F_i x F_g x F_{pv}

$$Q = 12.365 \times 260 \times .9981 \times .9608 \times 1.025 = 3160 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,113,025}{1,021,821} \right)^n 1.0892^{.85} = 1.0753 \times 3160$$

$$Aof = 3398 \text{ MCF/D}$$

TESTED BY R. A. UllrichWITNESSED BY Virgil Stoabs (J. Glenn Turner)

cc: Virgil Stoabs (4)

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