

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE January 7, 1970

Operator El Paso Natural Gas Company		Lease Pipkin No. 3 (OWKO)	
Location 990 N, 990 E, S 17, E27N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Pulcher-Kutz	
Casing: Diameter 2.475	Set At: Feet 1967	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 1002	To 1854	Total Depth: 1967	Shut In 12-3-69
Stimulation Method SRF		Flow Through Casing N/A	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, 469	PSIG	+ 12 = PSIA 481	Days Shut-In 35	Shut-In Pressure, Tubing no tubing	PSIG
Flowing Pressure: P 40	PSIG	+ 12 = PSIA 52		Working Pressure: Pw 0.26	PSIG
Temperature: T = 61 °F		n = .85		Fpv (From Tables) 1.004	Gravity .480
	F = .9962				Fg = .9600

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

$$Q = 12.365 \times 40 \times .9962 \times .9600 \times 1.004 = \underline{475} \text{ MCF/D}$$

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

$$Aof = \left(\frac{231361}{229152} \right)^n = (1.0096)^{.85} 475 = 1.0081 \times 475$$

$$Aof = \underline{479} \text{ MCF/D}$$

TESTED BY B. J. Broughton & J. Goodwin

WITNESSED BY _____