

Mesa Petroleum Company
OPEN FLOW TEST DATA

DATE November 29, 1977

Operator Mesa Petroleum Company		Lease Suter Com #5	
Location SW 15-32-11		County San Juan	State New Mexico
Formation Pictured Cliff		Pool Blanco	
Casing: Diameter 4 1/2	Set At: Feet 3335	Tubing: Diameter 1 1/4	Set At: Feet 3337
Pay Zone: From 3224	To 3246	Total Depth: 3425 PBTD 3267	Shut In 11/22/77
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 596	+ 12 = PSIA 608	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 596	+ 12 = PSIA 608	
Flowing Pressure: P PSIG 112	+ 12 = PSIA 124		Working Pressure: P _w PSIG 134	+ 12 = PSIA 146	
Temperature: T = 57 °F	F _t = 1.003	n = .85	F _{pv} (From Tables) 1.011	Gravity .650	F _g = .9608

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

$$Q = 12.365 \times 124 \times 1.003 \times .9608 \times 1.011 = \underline{1494} \text{ MCF/D}$$

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

$$Aof = \left(\frac{369664}{348348} \right)^n = 1494 (1.0612)^{.85} 1494 (1.0518)$$

$$Aof = \underline{1571} \text{ MCF/D}$$

TESTED BY Bill Toler-Mesa Petroleum Co.WITNESSED BY J. Thurstonson, El Paso Natural Gas Company

C.R. Wagner

