

OPEN FLOW TEST DATA

COMPANY DISTRIBUTION ONLY

DATE May 1, 1975

Operator Koch Industries, Inc.		Lease Lamb #1-A	
Location 1180'N, 865'W, Sec. 21, T31N, R10W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5588'	Tubing: Diameter 2.375	Set At: Feet 5430'
Pay Zone: From 5114	To 5420	Total Depth: 5590	Shut In 4-23-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 698	+ 12 = PSIA 710	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 654	+ 12 = PSIA 666	
Flowing Pressure: P PSIG 259	+ 12 = PSIA 271		Working Pressure: Pw PSIG 638	+ 12 = PSIA 650	
Temperature: T = 70 °F	n = .75		Fpv (From Tables) 1.025	Gravity 0.665	Fg = 0.9498

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

$$Q = (12.365)(271)(0.9905)(.9498)(1.025) = \underline{\quad 3231 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{504100}{81600} \right)^n = 3231(6.1777)^{.75} = 3231(3.9185)$$

$$Aof = \underline{\quad 12661 \quad} \text{ MCF/D}$$

Note: Well made a light fog of water and distillate throughout test.

TESTED BY McAnally & Brink

INTERPRETED BY

John W. Brink
Well Test Engineer

