

OPEN FLOW TEST DATA

COMPANY DISTRIBUTION ONLY

DATE May 25, 1978

Operator Mesa Petroleum Co.		Lease State Com S #15-A (F-PM)	
Location NW 36-32-12		County San Juan	State New Mexico
Formation Fruitland		Pool Undes	
Casing: Diameter 20.0# 7.00"	Set At: Feet 3227'	Tubing: Diameter --	Set At: Feet --
Pay Zone: From 2806'	To 2820'	Total Depth: 5586'	Shut In 5-11-78
Stimulation Method Sandwater Frac		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 907	+ 12 = PSIA 919	Days Shut-In 14	Shut-In Pressure, Tubing --	PSIG + 12 = PSIA --
Flowing Pressure: P 73	PSIG + 12 = PSIA 85		Working Pressure: P _w Calc.	PSIG + 12 = PSIA
Temperature: T = 63 °F	F _t = .9971	n = .85	F _{pv} (From Tables) 1.009	Gravity .670 F _g = .9463

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

$$Q = 12.365(85)(.9971)(.9463)(1.009) = 1002 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{844561}{837336} \right)^n = (1.0086)^{.85} = (1002) = (1.0073)(1002)$$

Note: Well blew light fog of water throughout test.

$$Aof = 1009 \text{ MCF/D}$$

TESTED BY D. Green

WITNESSED BY C.R. Wagner

C.R. Wagner
Well Test Engineer

