

MESA PETROLEUM COMPANY
OPEN FLOW TEST DATA

DATE June 1, 1978

Operator Mesa Petroleum Corp.		Lease State Com F #1-A	
Location SE 36-32-12		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5605'	Tubing: Diameter 2 3/8	Set At: Feet 5403'
Pay Zone: From 4555	To 5568'	Total Depth: 5605'	Shut In 5-25-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 720	+ 12 = PSIA 732	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 725	+ 12 = PSIA 737	
Flowing Pressure: P PSIG 177	+ 12 = PSIA 189		Working Pressure: P _w PSIG 662	+ 12 = PSIA 674	
Temperature: T = 79 °F	F _t = .9822	n = .75	F _{pv} (From Tables) 1.017	Gravity .650	F _g = .9608

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

$$Q = 12.365(189)(.9822)(.9608)(1.017) = \underline{\quad 2243 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{543169}{88893} \right)^n = (6.1104)^{.75} = (2243) = (3.8864)(2243)$$

$$Aof = \underline{\quad 8717 \quad} \text{ MCF/D}$$

TESTED BY D. Green- Mesa Pet. Corp.

WITNESSED BY C.P. Wagner- EPNG

C.P. Wagner
Well Test Engineer