

MESA PETROLEUM CORP.

OPEN FLOW TEST DATA

DATE July 26, 1978

Operator Mesa Petroleum Corp.		Lease Sutter #1-A (MV)	
Location NW 13-32N-11W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5692'	Tubing: Diameter 2 3/8	Set At: Feet 5443'
Pay Zone: From 4586	To 5608'	Total Depth: 5692'	Shut In 6-29-78
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 --	+ 12 = PSIA --	Days Shut-In 27	Shut-In Pressure, Tubing PSIG 932	+ 12 = PSIA 944	
Flowing Pressure: P PSIG 356	+ 12 = PSIA 368		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 731	
Temperature: T = 74 °F	F _t = .9868	n = .75	F _{pv} (From Tables) 1.034	Gravity .650	F _g = .9608

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

$$Q = 12.365(368)(.9868)(.9608)(1.034) = \underline{4461} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{891136}{356775} \right)^n = (2.7500)^{.75} = (4461) = (2.1355)(4461)$$

$$Aof = \underline{9526} \text{ MCF/D}$$

TESTED BY Bill TollerWITNESSED BY C. R. Wagner- EPNG
