

MESA PETROLEUM COMPANY
OPEN FLOW TEST DATA

DATE 7-26-78

Operator Mesa Petroleum Corp.		Lease Sutter #2-A (MV)	
Location SE 12-32N-11W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5791'	Tubing: Diameter 2 3/8	Set At: Feet 5617'
Pay Zone: From 4714	To 5694	Total Depth: 5791'	Shut In 7-17-78
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	+ 12 = PSIA -	Days Shut-In 9	Shut-In Pressure, Tubing 736	PSIG + 12 = PSIA 748
Flowing Pressure: P 254	PSIG	+ 12 = PSIA 266		Working Pressure: P _w Calc.	PSIG + 12 = PSIA 530
Temperature: T = 74 °F		n = .75		F _{pV} (From Tables) 1.024	Gravity .650 F _g = .9608

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

$$Q = 12.365(266)(.9868)(.9608)(1.024) = \underline{\quad 3193 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{559504}{278604} \right)^n = (2.0082)^{.75} = (3193) = (1.6870)(3193)$$

$$Aof = \underline{\quad 5387 \quad} \text{ MCF/D}$$

TESTED BY Bill Toller

WITNESSED BY C. R. Wagner

C. R. Wagner
Well Test Engineer