

MESA PETROLEUM COMPANY  
OPEN FLOW TEST DATA

DATE August 10, 1978

Operator Mesa Petroleum Corp.		Lease State Com #13-A (MV)	
Location SE 36-29-08		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5654'	Tubing: Diameter 2 3/8	Set At: Feet 5547'
Pay Zone: From 4850	To 5320	Total Depth: 5665	Shut In 7-28-78
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	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
			859	871	
Flowing Pressure: P PSIG	+ 12 = PSIA		Working Pressure: P <sub>w</sub> PSIG	+ 12 = PSIA	
346	358		Calc.	716	
Temperature: T = 74 °F	F <sub>t</sub> = .9868	n = .75	F <sub>pv</sub> (From Tables)	Gravity	
			1.033	.650	F <sub>g</sub> = .9608

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

$$Q = 12.365(358)(.9868)(1.033) = \underline{\quad 4336 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{758641}{245985} \right)^n = (3.0841)^{.75} = (4336) = (2.3273)(4336)$$

$$Aof = \underline{\quad 10,091 \quad} \text{ MCF/D}$$

Note: Well blew heavy fog of distillate and water throughout test.

TESTED BY Jack Dunning

WITNESSED BY C. R. Wagner

*C. R. Wagner*  
Well Test Engineer