

MESA PETROLEUM COMPANY
OPEN FLOW TEST DATA

DATE 8-31-78

Operator Mesa Petroleum Corp.		Lease Federal #16-A	
Location NW 9-27N-8W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 4775'	Tubing: Diameter 2 3/8	Set At: Feet 4545'
Pay Zone: From 3858	To 4669'	Total Depth: 4775'	Shut In 8-21-78
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 922	+ 12 = PSIA 934	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 920	+ 12 = PSIA 932	
Flowing Pressure: P PSIG 133	+ 12 = PSIA 145		Working Pressure: P _w PSIG 411	+ 12 = PSIA 423	
Temperature: T = 68 °F	F _t = .9924	n = .75	F _{pv} (From Tables) 1.013	Gravity .650	F _g = .9608

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

$$Q = 12.365(145) .9924 \times .9608 \times 1.013 = \underline{\hspace{2cm}} 1732 \text{ MCF/D}$$

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

$$A_{of} = Q \left(\frac{872356}{693427} \right)^n = (1.2580)^{.75} = (1732) = (1.1879)(1732)$$

$$A_{of} = \underline{\hspace{2cm}} 2057 \text{ MCF/D}$$

TESTED BY Glen Rhodes

WITNESSED BY C. R. Wagner

C. R. Wagner
Well Test Engineer

