

MESA PETROLEUM COMPANY
OPEN FLOW TEST DATA

DATE August 1, 1978

Operator Mesa Petroleum Corp.		Lease State Com V #18-A	
Location SE 2-30N-8W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5662'	Tubing: Diameter 2 3/8	Set At: Feet 5384'
Pay Zone: From 5020	To 5500	Total Depth: 5662	Shut In 7-15-78
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 542	+ 12 = PSIA 554	Days Shut-In 17	Shut-In Pressure, Tubing PSIG 540	+ 12 = PSIA 552	
Flowing Pressure: P PSIG 153	+ 12 = PSIA 165		Working Pressure: P _w PSIG 445	+ 12 = PSIA 457	
Temperature: T = 78 °F	F _t = .9831	n = .75	F _{pv} (From Tables) 1.014	Gravity .650	F _g = .9608

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

$$Q = 12.365(165)(.9831)(.9608)(1.014) = \underline{\hspace{2cm}} 1954 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{306916}{98067} \right)^n = (3.1297)^{.75} = (1954) = (2.3530)(1954)$$

$$Aof = \underline{\hspace{2cm}} 4598 \text{ MCF/D}$$

TESTED BY D. Green

WITNESSED BY C. R. Wagner-EPNG

C. R. Wagner
Well Test Engineer