

OPEN FLOW TEST DATA

DATE 9-2-80

Operator <u>MESA PETROLEUM CO.</u>		Lease <u>GAGE #3</u>	
Location <u>-20-30N-10W</u>		County <u>SAN JUAN</u>	State <u>NEW MEXICO</u>
Formation <u>MESA VERDE</u>		Pool <u>BLANCO</u>	
Casing: Diameter <u>7" / 4 1/2"</u>	Set At: Feet <u>3082 / 7401</u>	Tubing: Diameter <u>1 1/4"</u>	Set At: Feet <u>3072</u>
Pay Zone: From <u>5268</u>	To <u>5224</u>	Total Depth:	Shut In
Stimulation Method <u>SAND FRAC</u>		Flow Through Casing <u>XX</u>	Flow Through Tubing

Choke Size, Inches <u>.7500</u>		Choke Constant: C <u>12.365</u>	
Shut-In Pressure, Casing, PSIG <u>775</u>	+ 12 = PSIA <u>787</u>	Days Shut-In	Shut-In Pressure, Tubing PSIG <u>775</u>
Flowing Pressure: P PSIG <u>375</u>	+ 12 = PSIA <u>387</u>		Working Pressure: Pw PSIG <u>375</u>
Temperature: T = <u>30</u> °F	Ft = <u>1.0302</u>	n = <u>.75</u>	Fpv (From Tables) <u>1.020</u>
			Gravity <u>.650</u> Fg = <u>.9608</u>

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

$$Q = (12.365 \times 387 \times 1.0302 \times .9608 \times 1.020) = \underline{4831} \text{ MCF/D}$$

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

$$Aof = \left(\frac{619369}{469600} \right)^n = 4831 \times 1.2307$$

$$Aof = \underline{5946} \text{ MCF/D}$$

TESTED BY JACK HALL

WITNESSED BY _____

