

OPEN FLOW TEST DATA

DATE 7-3-80

Operator <u>MESA PETROLEUM Co.</u>		Lease <u>STATE Com AK #35'E</u>	
Location <u>P 36-32N-12W</u>		County <u>SAN JUAN</u>	State <u>NEW MEXICO</u>
Formation <u>DAKOTA</u>		Pool <u>BASIN</u>	
Casing: Diameter <u>7" / 4 1/2"</u>	Set At: Feet <u>3092 / 7694</u>	Tubing: Diameter <u>2 3/8"</u>	Set At: Feet <u>7377</u>
Pay Zone: From <u>7407</u>	To <u>7630</u>	Total Depth:	Shut In
Stimulation Method <u>Flow</u>		Flow Through Casing	Flow Through Tubing <u>XX</u>

Choke Size, Inches <u>3/4"</u>		Choke Constant: C <u>12.365</u>	
Shut-In Pressure, Casing, PSIG <u>1870</u>	+ 12 = PSIA <u>1882</u>	Days Shut-In	Shut-In Pressure, Tubing PSIG <u>1870</u>
Flowing Pressure: P PSIG <u>200</u>	+ 12 = PSIA <u>212</u>		Working Pressure: Pw PSIG <u>200</u>
Temperature: T = <u>78 °F</u>	Ft = <u>.9831</u>	n = <u>.75</u>	Fpv (From Tables) <u>1.020</u>
			Gravity <u>.650</u> Fg = <u>.9608</u>

CHOKE VOLUME = $Q = C \times P_i \times F_i \times F_g \times F_{pv}$

$Q = \{12.365 \times 212 \times .9831 \times .9608 \times 1.020\} = \underline{2526} \text{ MCF/D}$

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

$Aof = Q \left(\frac{3541924}{2882580} \right)^n = 2526 \{1.2287\}^{.75} = 2526 \times 1.1671$

$Aof = \underline{2948} \text{ MCF/D}$

TESTED BY JIM PEACE

WITNESSED BY _____

