

OPEN FLOW TEST DATA

DATE 7-3-80

Operator <u>MESA PETROLEUM Co.</u>		Lease <u>STATE Com AJ #34E</u>	
Location <u>N 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>3073 / 7535</u>	Tubing: Diameter <u>2 3/8"</u>	Set At: Feet <u>7259</u>
Pay Zone: From <u>7322</u>	To <u>7474</u>	Total Depth: <u>7535</u>	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>1010</u>	+ 12 = PSIA <u>1022</u>	Days Shut-In	Shut-In Pressure, Tubing PSIG <u>1400</u>	+ 12 = PSIA <u>1412</u>	
Flowing Pressure: P <u>70</u> PSIG	+ 12 = PSIA <u>82</u>		Working Pressure: Pw <u>70</u> PSIG	+ 12 = PSIA <u>82</u>	
Temperature: T = <u>80</u> °F	Ft = <u>.9813</u>	n = <u>.75</u>	Fpv (From Tables) <u>1.020</u>	Gravity <u>.650</u>	Fg = <u>.9608</u>

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

$$Q = (12.365 \times 82 \times .9813 \times .9608 \times 1.020) = \underline{975} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1044484}{1037760} \right)^n = 1.0065^{.75} = 1.0049 \times 975$$

$$Aof = \underline{980} \text{ MCF/D}$$

TESTED BY JIM PEACE

WITNESSED BY _____

