

OPEN FLOW TEST DATA

DATE 7-9-80

Operator <u>MESA PETROLEUM Co.</u>		Lease <u>STATE COM AJ 34 E</u>	
Location <u>N-36-32N-12W</u>		County <u>SAN JUAN</u>	State <u>NEW MEXICO</u>
Formation <u>FRUITLAND</u>		Pool	
Casing: Diameter <u>7"</u>	Set At: Feet <u>3037</u>	Tubing: Diameter <u>1 1/4"</u>	Set At: Feet <u>2422</u>
Pay Zone: From <u>2480</u>	To <u>2650</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>1000</u>	+ 12 = PSIA <u>1012</u>	Days Shut-In	Shut-In Pressure, Tubing PSIG <u>1060</u>	+ 12 = PSIA <u>1072</u>	
Flowing Pressure: P PSIG <u>120</u>	+ 12 = PSIA <u>132</u>		Working Pressure: Pw PSIG <u>120</u>	+ 12 = PSIA <u>132</u>	
Temperature: T = <u>85</u> °F	Ft = <u>.9768</u>	n = <u>.85</u>	Fpv (From Tables) <u>1.020</u>	Gravity <u>.9608</u>	

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

$Q = (12.365 \times 132 \times .9768 \times .9608 \times 1.020) = 1562 \text{ MCF/D}$

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

$Aof = Q \left(\frac{1024144}{1006720} \right)^n = 1562 (1.0173)^{.85} = 1562 (1.0147)$

Aof = 1585 MCF/D

TESTED BY Jim PEACE

WITNESSED BY _____

