

OPEN FLOW TEST DATA

DATE April 30, 1960

Operator <u>Consolidated Oil & Gas, Inc.</u>		Lease <u>Payne No. 2</u>	
Location <u>NE/4, Sec. 35, T31N-R13W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Dakota</u>		Pool <u>Undesignated</u>	
Casing: Diameter <u>5 1/2</u>	Set At: Feet <u>6896</u>	Tubing: Diameter <u>2" EUE</u>	Set At: Feet <u>6681</u>
Pay Zone: From <u>6705 - 6813</u>	To <u></u>	Total Depth: <u>6865</u>	
Stimulation Method <u>Sand-Water Frac</u>		Flow Through Casing <u></u>	Flow Through Tubing <u>XX</u>

Choke Size, Inches <u>3/4"</u>		Choke Constant: C <u>12.3650</u>			
Shut-In Pressure, Casing, PSIG <u>1950</u>	+ 12 = PSIA <u>1962</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>1950</u>	+ 12 = PSIA <u>1962</u>	
Flowing Pressure: P PSIG <u>290</u>	+ 12 = PSIA <u>302</u>		Working Pressure: P _w PSIG <u>904</u>	+ 12 = PSIA <u>916</u>	
Temperature: T °F <u>70</u>	n = <u>.75</u>		F _{pv} (From Tables) <u>1.034</u>	Gravity <u>.70</u>	

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = 12.3650 \times 302 \times .9905 \times .9258 \times 1.034 = \underline{3540} \text{ MCF/D}$$

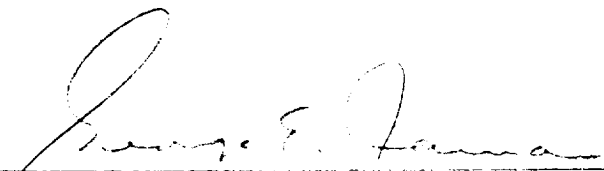
$$\text{OPEN FLOW} : Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{3849444}{3010388} \right)^n = 3540 (1.27872)^{.75} = 3540 (1.202)$$

$$Aof = \underline{4260} \text{ MCF D}$$

TESTED BY Robert B. Tenison

WITNESSED BY _____


 George E. Farmer, Prod. Mgr.