

OPEN FLOW TEST DATA

DATE July 19, 1959

Operator Consolidated Oil & Gas, Inc.		Lease Gov't Payne No. 1-35	
Location SW/4 of Sec. 35-T31N-R13W		County San Juan	
Formation Dakota		Pool Blanco <i>Includes Park</i>	
Casing: Diameter 5-1/2"	Set At: Feet 6857'	Tubing: Diameter 1-1/4"	
Pay Zone: From 6578'	To 6794'	Total Depth: PB 6829'	
Stimulation Method Sand-water Frac		Flow Through Casing No	Flow Through Tubing Yes

Choke Size, Inches 0.75		Choke Constant: C 14.1605			
Shut-In Pressure, Casing, PSIG 1918	+ 12 = PSIA 1930	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 1913	+ 12 = PSIA 1925	
Flowing Pressure: P PSIG 210	+ 12 = PSIA 222		Working Pressure: Pw PSIG 1160	+ 12 = PSIA 1172	
Temperature: T °F 55	n = 0.75		Fpv (From Tables) 1.033	Gravity 0.75	

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

$$Q = 14.1605 \times 222 \times 1.0048 \times 0.9308 \times 1.033 = 3037 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n = 3037 \left(\frac{1930^2}{1930^2 - 1172^2} \right)^{0.75}$$

$$Aof = 3037 \left(\frac{3,724,900}{2,351,316} \right)^{0.75} = 3037 \times 1.584 = 3037 \times 1.411$$

$$Aof = 4290 \text{ MCF/D}$$

TESTED BY George Farmar

WITNESSED BY Jack Martin