

OPEN FLOW TEST DATA

DATE November 27, 1961

Operator Consolidated Oil & Gas, Inc.		Lease Wilmerding	
Location 1090' F/NL & 1750' F/NL, Sec. 9, T31N-R13W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing Diameter 5 1/2"	Set At Feet 6800'	Tubing Diameter 1 1/2" IS	Set At Feet 6591'
Pay Zone From 6635'	To 6778'	Total Depth 6800'	6780' PB
Simulation Method Sand water frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 14.1605	
Shut-In Pressure, Casing, PSIG Mesaverde	- 12 = PSIA	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 1843
Flowing Pressure: P, PSIG 69	- 12 = PSIA	Working Pressure: P _w , PSIG -	- 12 = PSIA 1855
Temperature: T, °F 41	n =	F _{pv} (From Tables) 1.000	Gravity .70

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = 14.1605 \times 81 \times 1.0188 \times .9258 = 1080 \text{ MCF/D}$$

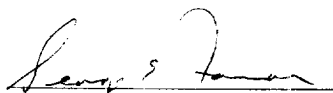
$$\text{OPEN FLOW } Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{1138489}{459513} \right)^n$$

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

TESTED BY Clyde Phillips

WITNESSED BY



OPEN FLOW TEST DATA

DATE December 8, 1961

Operator Consolidated Oil & Gas, Inc.		Lease Wilmerding	
Location 1090' F/NL, 1750' F/EI, Sec. 9		County San Juan	State New Mexico
Formation Mesaverde		Pool Blanco	
Casing Diameter 5 1/2"	Set At Feet 6800	Tubing Diameter 1" EUE	Set At Feet 6643
Pay Zone From 4462	To 4657	Total Depth 6590 (Bridge Plug)	
Simulation Method Sand water frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.75		Choke Constant: C 14.1605	
Shut-In Pressure, Casing, PSIG 1055	- 12 = PSIA	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 1050
Flowing Pressure: P, PSIG 13	- 12 = PSIA	Working Pressure: P _w , PSIG 812	- 12 = PSIA 1062
Temperature: T, °F 42	n =	F _{pv} (From Tables) 1.000	Gravity .70

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = 14.1605 \times 25 \times 1.0178 \times .9258 = 344 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1138489}{459513} \right)^n = 852$$

$$Aof = 852 \text{ MCF/D}$$

TESTED BY George Reid

WITNESSED BY

