

AMERICAN OIL FIELD SERVICE COMPANY OPEN FLOW TEST DATA

DATE _____

Operator _____		Lease _____	
Location _____		County _____	State _____
Formation _____		Pool _____	
Casing: Diameter _____	Set At: Feet _____	Tubing: Diameter _____	Set At: Feet _____
Pay Zone: From _____	To _____	Total Depth: _____	Shut In _____
Circulation Method _____		Flow Through Casing _____	Flow Through Tubing _____

Choke Size, inches _____		Choke Constant: C _____	
Shut-In Pressure, Casing, PSIG _____	+ 12 = PSIA _____	Days Shut-In _____	Shut-In Pressure, Tubing PSIG _____
Flowing Pressure: P PSIG _____	+ 12 = PSIA _____	Working Pressure: Pw PSIG _____	+ 12 = PSIA _____
Temperature: _____	n = _____	Fpv (From Tables) _____	Gravity _____
T = _____ °F	Ft = _____		Fg = _____

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

$$Q = 1.41 \times 10^{-4} \left(\frac{1.41 \times 10^{-4}}{1.41 \times 10^{-4}} \right) \times 1.0 \times 1.0 \times 1.0 = 1.41 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^{\frac{1}{n}}$$

$$Aof = \left(\frac{1.41 \times 10^{-4}}{1.41 \times 10^{-4}} \right)^{\frac{1}{1.0}} = 1.41 \text{ MCF/D}$$

$$Aof = 1.41 \text{ MCF/D}$$



NOTE: The test is a flow test of water. No gas is produced throughout the test.

TESTED BY _____

WITNESSED BY _____

B. H. Kerschil
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