

OPEN FLOW TEST DATA

Operator: H. L. Fundingsland Date: June 28, 1962
Sumico Oil Co. Lease: Sumico #2
Location: SW/4 Section 24, T. 25N, R. 2W. County: Big Horn State: N. D.
Formation: P C Pool: Undersaturated
Casing: 4 1/2 " Set @ _____ ' Tubing: 1 " Set @ _____
Pay Zone: _____ ' To: _____ ' Total Depth: _____
Choke Size: 3/4 THD " Choke Constant = C = 12.365
Stimulation Method: _____ Flow Through: Casing X Tubing _____
Shut-in Pressure Casing: 770 psig / 12 = 782 psia (Shut-in 8 days)
Shut-in Pressure Tubing: 770 psig / 12 = 782 psia
Flowing Pressure: P : 103 psig / 12 = 115 psia
Working Pressure: P_w : _____ psig / 12 = _____ psia
Temperature: T : 42 °F / 460 = 502 °Absolute
F_{pv} (from tables) : 1.011 Gravity .620 API = 85

$$\text{Choke Volume} = Q = C \times P_c \times F_c \times F_g \times F_{pv}$$

$$12.365 \times 115 \times 1.0178 \times .9837 \times 1.011 = \underline{1432} \text{ MCF/D}$$

$$\text{Open Flow} - Aof = Q$$

$$Aof =$$

$$\left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{.5} = \left[\frac{782^2 - 115^2}{782^2} \right]^{.5} = 1.0187$$

$$Aof =$$

$$\underline{1466} \text{ MCF/D}$$

Tested By: H. W. Stiles

Witnessed By: _____

Geologist: _____