

OPEN FLOW TEST DATA

Date: 9-12-63

Operator: Shaw-Alan

Lease: Jonesville 4-4-2

Location: NW 1/4 #23E-2W

County: RA State: NE

Formation: BC

Pool: S. Elmore

Casing: 4 1/2 " Set @ 3045

Tubing: 1 " Set @

Pay Zone: To:

Total Depth:

Choke Size: 3/4 TBC

Choke Constant = C = 12.365

Stimulation Method:

Flow Through: Casing Tubing

Shut-in Pressure Casing: 951 psig / 12 = 963 psia (Shut-in 2 days)

Shut-in Pressure Tubing: 950 psig / 12 = 962 psia

Flowing Pressure: P : 116 psig / 12 = 128 psia

Working Pressure: P_w : 121 psig / 12 = 133 psia

Temperature: T : 81 °F / 460 = 501 °Absolute

F_{pv} (from tables) : 1.013 Gravity .620 n 25

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

$$12.365 \times 133 \times 1.0188 \times .9837 \times 1.013$$

$$= 1470 \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$= 1.0188 = 1.0152$$

Aof =

$$1496 \text{ MCF/D}$$

Tested By: _____

Witnessed By: _____

