

OPEN FLOW TEST DATA

Date: 8/5/63

Operator: SHAR ALAN

Lease: SURRY FEDERAL # 2

Location: SE 33 - 24N - 2W

County: RA State: MM

Formation: P G

Pool: UNASSUMED

Casing: 4 1/2 " Set @ 3086

Tubing: 1 1/2 " Set @ 2925

Pay Zone: 2951 To: 2996

Total Depth: 3100

Choke Size: 3/4 T H G

Choke Constant = C = 12.365

Stimulation Method: _____

Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 941 psig / 12 = 953 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 939 psig / 12 = 951 psia

Flowing Pressure: P : 95 psig / 12 = 107 psia

Working Pressure: P_w : 446 psig / 12 = 458 psia

Temperature: T : 38 °F / 460 = 498 °Absolute

F_{pv} (from tables) : 1.011 Gravity Est .640 n .85

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

$$12.365 \times 107 \times 1.0219 \times .9582 \times 1.011$$

$$= 1323 \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

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

$$\left[\frac{908,209}{698,445} \right]^n$$

$$= 1.3003 = 1.2499$$

Aof =

$$1654 \text{ MCF/D}$$



Tested By: _____

Witnessed By: _____

GEOLECTRIC INC.