

RECEIVED

OPEN FLOW TEST DATA

MAY 27 1963

Date: APR 10, 1963

Lease: Service # 2

Operator: F. L. FINDINGLAND

Location: SW/4 23-28N-24

County: RA State: IL

Formation: PICTURED CLAY

Pool: _____

Casing: 4 1/2 " Set @ 3531

Tubing: _____ " Set @ _____

Pay Zone: 3465 ' To: 3531

Total Depth: _____

Choke Size: 3/4 in

" Choke Constant = C = 14.1605

Stimulation Method: _____ Flow Through: Casing X Tubing _____

Shut-in Pressure Casing: 695 psig / 12 = 677 psia (Shut-in 8 days)

Shut-in Pressure Tubing: _____ psig / 12 = _____ psia

Flowing Pressure: P : 120 psig / 12 = 132 psia

Working Pressure: P_w : _____ psig / 12 = _____ psia

Temperature: T : 40 °F / 460 = 500 °Absolute

F_{pv} (from tables) : 1.013 Gravity Est. 620 n 35

$$\text{Choke Volume} = Q = C \times P_c^2 \times F_t \times F_g \times F_{pv}$$

$$14.1605 = 132 \times 1.013 \times .937 \times 1.000$$

$$Q = \underline{1920} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \frac{\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n}{\left[\frac{468,200}{468,205} \right]^n} = 1.0072 - 1.0019$$

$$Aof = \underline{1920} \text{ MCF/D}$$

Tested By: A. E. Stiles

Witnessed By: _____

GELECTRIC INC.