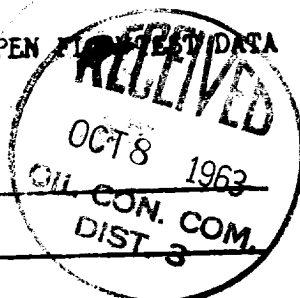


OPEN FLOW TEST DATA



Operator: SHAW-ALAN Date: 9-21-63
 Location: NW/4 SEC. 2 23N-2W Lease: JOHNSON R #4
 Formation: PASTURE CREEK County: Red ARKANSAS State: N. ARK.
 Pool: UNDEVELOPED
 Casing: 4 1/2 " Set 0 ' Tubing: 1 1/2 " Set 0 '
 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: 896 psig / 12 = 908 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 896 psig / 12 = 908 psia

Flowing Pressure: P : 121 psig / 12 = 133 psia

Working Pressure: P_w : 129 psig / 12 = 141 psia

Temperature: T : 48 °F / 460 = 508 °Absolute

F_{pv} (from tables) : 1.013 Gravity .620 n .85

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

$$12.365 \times 133 \times 1.0117 \times .9837 \times 1.013 = \underline{1692} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{824,464} \right]^n = 1.0247 \approx 1.0209$$

$$Aof = \underline{1692} \text{ MCF/D}$$

Tested By: _____

Witnessed By: _____

GEOELECTRIC INC.