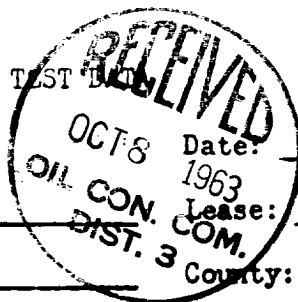


OPEN FLOW TEST LOG



Date: 9-21-63
 Lease: Jicarilla J-2
 County: RA State: N.Mex.
 Operator: Shar Alan
 Location: SE/4 Sec. 10-23N-2W
 Formation: PC Pool: _____
 Casing: 4 1/2 " Set • Tubing: 1 1/2 " Set •
 Pay Zone: _____ To: _____ Total Depth: _____
 Choke Size: 3/4 THG Choke Constant = C = 12.365
 Stimulation Method: _____ Flow Through: Casing X Tubing _____
 Shut-in Pressure Casing: 903 psig / 12 = 915 psia (Shut-in 8 days)
 Shut-in Pressure Tubing: 902 psig / 12 = 914 psia
 Flowing Pressure: P : 117 psig / 12 = 129 psia
 Working Pressure: P_w : 121 psig / 12 = 133 psia
 Temperature: T : 43 °F / 460 = 503 °Absolute
 F_{pv} (from tables) : 1.012 Gravity .620 n .85

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

$$12.365 \times 129 \times 1.0168 \times .9837 \times 1.012 = 1615 \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{837.225} \right]^n = 1.0216 - 1.0183$$

Aof = 1645 MCF/D

Tested By: _____

Witnessed By: _____

Gelectric, Inc.

[Signature]