

OPEN FLOW TEST DATA

Date: 10-12-62
 Operator: SHAR-ALAN Lease: BOONMAN FARM No. 3
 Location: MM/4 Sec 4 23N-1W County: Richmond State: N. M.
 Formation: Barren Chert Pool: _____
 Casing: 4 1/2 " Set @ 3148 ' Tubing: 1 " Set @ 3202 '
 Pay Zone: 3250 ' To: 3072 ' Total Depth: 3150 '
 Choke Size: 3/4 TMS " Choke Constant = C = 12/365

Stimulation Method: _____ Flow Through: Casing X Tubing _____

Shut-in Pressure Casing: 704 psig / 12 = 716 psia (Shut-in 7 days)

Shut-in Pressure Tubing: 704 psig / 12 = 716 psia

Flowing Pressure: P : 113 psig / 12 = 125 psia

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

Temperature: T : 42 °F / 460 = 502 °Absolute

P_{pv} (from tables) : 1.012 Gravity 0.80 n = 0.5

Choke Volume = Q = C x P_c x P_t x P_g x P_{pv}

$$Q = \frac{12.365 \times 125 \times 1.0178 \times .9837 \times 1.012}{1.012} = \underline{1567} \text{ MCF/D}$$

Open Flow - Aof = Q

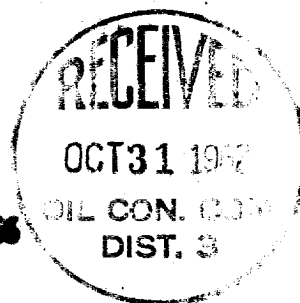
Aof =

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{0.5} = \frac{512.656}{497.081} = 1.014 = 1.016$$

Aof =

1600

MCF/D



Tested By: _____

Witnessed By: _____

GELECTRIC INC.

[Signature]