

Re-test

OPEN FLOW TEST DATA

Date: October 1, 1963
 Operator: Geolectric Inc. Lease: Lease #1
 Location: Section 10, T1N, R10E County: BA State: NM
 Formation: Picturedado Pool: Unassigned
 Casing: 4 1/2" Set @ 3120 Tubing: 1 1/2" Set @ 3310
 Pay Zone: 234 To: 3334 Total Depth: 3120
 Choke Size: 2 1/4" F45 Choke Constant = C = 12.365
 Stimulation Method: _____ Flow Through: Casing X Tubing _____
 Shut-in Pressure Casing: 911 psig / 12 = 913 psia (Shut-in 8 days)
 Shut-in Pressure Tubing: 900 psig / 12 = 912 psia
 Flowing Pressure: P : 185 psig / 12 = 197 psia
 Working Pressure: P_w : 164 psig / 12 = 178 psia
 Temperature: T : 43 °F / 460 = 503 °Absolute
 F_{pv} (from tables) : 1.0317 Gravity .620 Est n 85

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

$$12.365 \times 197 \times 1.0317 \times .620 \times 1.0317$$

$$= 2478 \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

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

$$\left[\frac{839,800}{801,865} \right]^n$$

$$= 1.0395 = 1.0335$$

Aof =

2561

MCF/D



Tested By: _____

Witnessed By: _____

GEOLECTRIC INC