

OPEN FLOW TEST DATA

Date: 6-27-64

Operator: J. R. Abraham

Lease: Chas. M. # 1

Location: SE/4 7-25N-3W

County: R A State: N. M.

Formation: Pictured Cliffs

Pool: Tapacito

Casing: 4 1/2 " Set @ 3210 ' Tubing: 2 3/8 " Set @ 3626

Pay Zone: 3670 ' To: 3690 ' Total Depth: 3650

Choke Size: 3/4 THG " Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing _____ Tubing 7

Shut-in Pressure Casing: 808 psig / 12 = 820 psia (Shut-in 7 days)

Shut-in Pressure Tubing: 808 psig / 12 = 820 psia

Flowing Pressure: P : 267 psig / 12 = 279 psia

Working Pressure: P_w : 613 psig / 12 = 625 psia

Temperature: T : 63 °F / 460 = 523 °Absolute

F_{pv} (from tables) : 1.027 Gravity .65 n .85

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

$$12.365 \times 279 \times .9971 \times .9608 \times 1.027 = \underline{3394} \text{ MCF/D}$$

Open Flow - Aof = Q

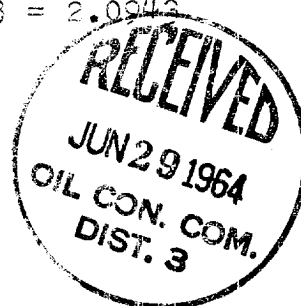
$$Aof = \left[\frac{P_c^2 - P_w^2}{672,400} \right]^{1/n} = 2.3863 = 2.0842$$

Aof = 7108 MCF/D

Tested By: _____

Witnessed By: _____

GeoElectric, Inc.



[Signature]