

OPEN FLOW TEST DATA

Date: OCTOBER 23, 1959

Operator: WILLIAMS CO.

Lease: HARRIS 43

Location: W-2-2

County: SAN JUAN State: P.R.

Formation: AY

Pool: ALAMO IV

Casing: 7" Set @ 777 4504

Tubing: 2" Set @ 4476

Pay Zone: 4370 To: 4500

Total Depth:

Choke Size: 3/4 B.S.

Choke Constant = C = 14.1605

Stimulation Method: S & F

Flow Through: Casing Tubing X

Shut-in Pressure Casing: 966 psig / 12 = 970 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 966 psig / 12 = 970 psia

Flowing Pressure: P : 46 psig / 12 = 58 psia

Working Pressure: P_w : 185 psig / 12 = 197 psia

Temperature: T : 72 °F / 460 = 532 °Absolute

F_{pv} (from tables) : 1.007 Gravity .570 n 75

$$\text{Choke Volume} = C = \frac{C \times P_c \times F_t \times F_v \times F_{pv}}{14.1605 \times 12 \times .966 \times 1.007 \times 1.037}$$

$$C = \frac{774 \times 1.037}{14.1605 \times 12 \times .966 \times 1.007 \times 1.037} \text{ MCF/D}$$

Open Flow - Aof = C

Aof =

Aof =

$$\left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{.5} = \frac{970^2 - 197^2}{970^2} = 1.0375$$

MCF/D



Tested By: W. H. Stiles

Witnessed By: ELMER W. LILL

W. H. Stiles, Inc.

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