

OPEN FLOW TEST DATA

Date: DECEMBER 1, 1957

Operator: WILLING O Lease: GRAHAM

Location: 34 2 3 - 27 - 8 County: AN GUAN State: PR

Formation: ICTURED LIFES Pool: BLANCO EXT.

Casing: 5 1/2 " Set @ 2230 ' Tubing: 3/4 " Set @ 2250 '

Pay Zone: 2196 ' To: 2295 ' Total Depth: 2295 '

Choke Size: 3/4 " Choke Constant = C = 14.1605

Stimulation Method: GF Flow Through: Casing X Tubing

Shut-In Pressure Casing: 933 psig / 12 = 945 psia (Shut-in 7 days)

Shut-In Pressure Tubing: psig / 12 = psia

Flowing Pressure: P : 170 psig / 12 = 182 psia

Working Pressure: P_w : 350 psig / 12 = ALCULATE psia

Temperature: T : 77 °F / 460 = 537 ° Absolute

F_{pv} (from tables) : 1.090 Gravity .67 n .45

$$14.1605 \times 182 \times .67 \times .9463 \times 1.090$$

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

$$Q = \frac{14.1605 \times 182 \times .67 \times .9463 \times 1.090}{2985} = 2637 \text{ MCF/D}$$

$$\text{Open Flow} = Aof = Q$$

$$Aof = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1327$$

$$Aof = \frac{2985}{2985} \text{ MCF/D}$$

Tested By: WILLING O, INC

B. H. MEYES GENT

Witnessed By: KENNEDY

RESERVATION DIVISION

B. H. Meyes