

OPEN FLOW TEST DATA

Date: January 4, 1957

Operator: W. P. CARR

Lease: HAMPTON #3

Location: 790' FNL, 1550' FEL
Sec. 10, Twp. 30N, Rge. 11W

County: San Juan State: N. Mex.

Formation: Mesa Verde

Pool: Blanco Mesa Verde

Casing: 7" Set @ 4458'

Tubing: 2-3/8" Set @ 4638'

Liner: 5-1/2" 4757'

Pay Zone: 4534-40 and To: 4552-72 4578-4610

Total Depth: 4757'

Choke Size: 3/4"

Choke Constant = C = 14.1605

Stimulation Method: Sand-Water

Flow Through: Casing Tubing x

Shut-In Pressure Casing: 1031 psig / 12 = 1043 psia (Shut-in 7 days)

Shut-In Pressure Tubing: 1027 psig / 12 = 1039 psia

Flowing Pressure: P : 317 psig / 12 = 329 psia

Working Pressure: P_w : 771 psig / 12 = 783 psia

Temperature: T : 67 °F / 460 = 527 ° Absolute

F_{pv} (from tables) : 1.035 Gravity Est. 0.670 n 0.75

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

$$Q = \frac{(14.1605) \times (329) \times (.9933) \times 4,528}{(.9463) \times (1.034)} = 4,528 \text{ MCF/D}$$

Open Flow = Aof = Q

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

Aof = 4,528

$$\left[\frac{1,087,849}{1,087,849 - 613,089} \right]^n = 1.8624$$

Aof = 8 433 MCF/D

Tested By: Virgil L. Stoabs

Witnessed By: D. W. Stiles



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Engr.