

OPEN FLOW TEST DATA

Date: February 18, 1956

Operator: Benson-Montin

Lease: N.C.R.A. State # 5

Location: 1650'N, 890'W, Sec. 36, T24N, R6W

County: Rio Arriba State: N.M.

Formation: Pictured Cliff

Pool: Wildcat

Casing: 5 1/2 " Set @ 2083 '

Tubing: 1 " Set @ 2097 '

Pay Zone: 2083 ' To: 2112 '

TD - 2148
Total Depth: PB - 2112 '

Choke Size: 3/4 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac.

Flow Through: Casing X Tubing

Shut-In Pressure Casing: 714 psig / 12 = 726 psia (Shut-in 37 days)

Shut-In Pressure Tubing: 714 psig / 12 = 726 psia

Flowing Pressure: P : 37.5 psig / 12 = 49.5 psia

Working Pressure: P_w : 86 psig / 12 = 98 psia

Temperature: T : 48 °F / 460 = 508 ° Absolute

F_{pv} (from tables) : 1.011 Gravity .65 Est. n .85

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

$$Q = \frac{14.1605 \times 49.5 \times 1.0117 \times .9608}{1.011} = \frac{689}{1.011} \text{ MCF/D}$$

Open Flow = Aof = Q

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

Aof = 689

$$\left[\frac{527,076}{517,472} \right]^n$$

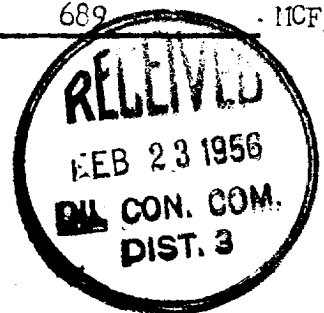
$$= 689(1.0186)^{.85} = 689 \times 1.0158$$

Aof =

700 MCF/D

Tested By: D. W. Mitchell

Witnessed By: Virgil Stoabs



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