

OPEN FLOW TEST DATA

Date: July 7, 1956

Operator: Benson-Montin

Lease: Sheets # 7

Location: 1100'N, 1460'E, Sec. 6-25N-7W

County: Rio Arriba State: N.M.

Formation: Pictured Cliff

Pool: Wildcat

Casing: 5 1/2 " Set @ 2742 '

Tubing: 1 1/2 " Set @ 2757 '

Pay Zone: 2668 ' To: 2778 '

Total Depth: 2778 '

Choke Size: 0.75 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Oil Frac.

Flow Through: Casing X Tubing

Shut-In Pressure Casing: 660 psig / 12 = 672 psia (Shut-in 85 days)

Shut-In Pressure Tubing: 660 psig / 12 = 672 psia

Flowing Pressure: P : 376 psig / 12 = 388 psia

Working Pressure: P_w : 392 psig / 12 = 404 psia

Temperature: T : 70 °F / 460 = 530 ° Absolute

F_{pv} (from tables) : 1.036 Gravity .655 n .85

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

$$Q = 14.1605 \times 388 \times .9905 \times .9571 \times \frac{1}{1.036} = 5396 \text{ MCF/D}$$

Open Flow = Aof = Q

Aof = 5396

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

$$\left[\frac{451,584}{288,368} \right]^n = Q \times 1.566^{.85} \times 1.164$$

Aof =

7,900

MCF/D



Tested By: T. B. Grant

Witnessed By: Virgil Stoabs

cc: Benson-Montin (4)

NOTE: Some freezing was noted to have occurred in the choke nipple; however, the choke volume is essentially the same as the gauge several hours after frac.

Lewis D. Galloway
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