

OPEN FLOW TEST DATA

Date: June 16, 1956

Operator: Benson-Montin

Lease: Sheets # 5

Location: 1470'N, 1230'E, Sec. 1-25N-8W

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: Wildcat

Casing: 5 1/2 " Set @ 2217 '

Tubing: 1 " Set @ 2297 '

Pay Zone: 2234 ' To: 2308 '

Total Depth: 2308 '

Choke Size: 0.75 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Oil Frac. Flow Through: Casing X Tubing

Shut-In Pressure Casing: 662 psig / 12 = 674 psia (Shut-in days)

Shut-In Pressure Tubing: 661 psig / 12 = 673 psia

Flowing Pressure: P : 55 psig / 12 = 67 psia

Working Pressure: P_w : 77 psig / 12 = 89 psia

Temperature: T : 64 °F / 460 = 524 ° Absolute

ρ_{pv} (from tables) : 1.009 Gravity .675 n .85

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

$$= 14.1605 \times 67 \times .9962 \times .9427 \times \frac{1}{1.009} = 899 \text{ MCF/D}$$

$$\text{Open Flow} = Aof = C \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$Aof = 899 \left[\frac{454,276}{446,355} \right]^n = 899 \times 1.0177^{.85} = 899 \times 1.01502$$

$$Aof = 913 \text{ MCF/D}$$

Tested By: L. D. Galloway

Witnessed By: Virgil Stoabs

cc: Benson-Montin (4)



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