

# OPEN FLOW TEST DATA

Date: June 27, 1956

Operator: Benson-Montin

Lease: Ka-Souse # 1

Location: 1550'S, 990'E, Sec. 25-26N-9W

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: Wildcat

Casing: 5 1/2 " Set @ 1923 '

Tubing: 1 " Set @ 1923 '

Pay Zone: 1918 ' To: 1928 '

Total Depth: 1928 '

Choke Size: 3/4 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Oil Frac.

Flow Through: Casing X Tubing     

Shut-In Pressure Casing: 636 psig / 12 = 648 psia (Shut-in 30 days)

Shut-In Pressure Tubing: 635 psig / 12 = 647 psia

Flowing Pressure: P : 34 psig / 12 = 46 psia

Working Pressure: P<sub>w</sub> : 58 psig / 12 = 70 psia

Temperature: T : 68 °F / 460 = 428 ° Absolute

F<sub>pv</sub> (from tables) : 1.004 Gravity 0.665 est. n 0.85

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

$$Q = 14.1605 \times 46 \times 1.004 \times .9498 \times .9924 = \underline{616} \text{ MCF/D}$$

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

$$Aof = 616 \left[ \frac{419,904}{415,004} \right]^n = (1.0118)^{.85} Q = 1.01 Q$$

$$Aof = \underline{622} \text{ MCF/D}$$

Tested By: L. D. Galloway

Witnessed By: Virgil Stoabs

cc: Benson-Montin (4)



L. D. Galloway

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