

OPEN FLOW TEST DATA

Date: June 16, 1956

Operator: Benson-Montin-Greer

Lease: Foster Riddle # 2

Location: 2230'N, 1650'E, Sec. 25-26N-8W

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: Wildcat

Casing: 5 1/2 " Set @ 2194 '

Tubing: 1 " Set @ 2275 '

Pay Zone: 2186 ' To: 2284 '

Total Depth: 2284 '

Choke Size: 0.75 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Oil Frac.

Flow Through: Casing X Tubing

Shut-In Pressure Casing: 676 psig / 12 = 688 psia (Shut-in 82 days)

Shut-In Pressure Tubing: 676 psig / 12 = 688 psia

Flowing Pressure: P : 93 psig / 12 = 105 psia

Working Pressure: P_w : 121 psig / 12 = 133 psia

Temperature: T : 75 °F / 460 = 535 ° Absolute

F_{pv} (from tables) : 1.008 Gravity .675 n .85

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

$$Q = 14.1605 \times 105 \times .9859 \times .9427 \times \frac{1}{1.008} = 1,393 \text{ MCF/D}$$

Open Flow = Aof = Q

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

1393

$$\left[\frac{473,344}{455,655} \right]^n$$

$$= 1393 \times 1.0388^{.85} = 1393 \times 1.0329$$

Aof =

1,439

MCF/D

Tested By: L. D. Galloway

Witnessed By: Virgil Stoabs

cc: (4) Benson-Montin-Greer



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