

OPEN FLOW TEST DATA

Date: March 6, 1956

Operator: J. Glenn Turner

Lease: Huerfano Unit # 44-22

Location: 1750'N, 990'W, S22, T27N, R9W

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: Wildcat

Casing: 5 1/2 " Set @ 2215 '

Tubing: 1 " Set @ 2277 '

Pay Zone: 2210 ' To: 2284 '

Total Depth: 2284 '

Choke Size: 3/4 "

Choke Constant = C = 14.1605

Stimulation Method: Water Frac.

Flow Through: Casing X Tubing

Shut-In Pressure Casing: 505 psig / 12 = 517 psia (Shut-in 24 days)

Shut-In Pressure Tubing: 505 psig / 12 = 517 psia

Flowing Pressure: P : 27.5 psig / 12 = 39.5 psia

Working Pressure: P_w : 29.5 psig / 12 = 41.5 psia

Temperature: T : 51 °F / 460 = 511 ° Absolute

F_{pv} (from tables) : 1.008 Gravity 0.650 n 0.850

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

$$= 14.1605 \times .9608 \times 1.0088 \times 1.008 \times \frac{517}{39.5} = \underline{546} \text{ MCF/D}$$

Open Flow = Aof = Q

Aof = 546

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

$$\left[\frac{267,289}{265,567} \right]^n$$

$$= 1.0065^{0.85} = 1.0055$$

Aof = 546 x 1.0055

549

MCF/D

Tested By: T. B. Grant

Witnessed By: Virgil Stoabs



cc: Benson-Montin-Greer (4)

L. D. Galloway
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