

OPEN FLOW TEST DATA

Date: May 19, 1956

Operator: J. Glenn Turner Lease: Huerfano Unit 43-26

Location: 1380S, 1280W, 26-27-0 County: San Juan State: N.M.

Formation: PC Pool: Wildcat

Casing: 1 1/2 " Set 2233 ' Tubing: 1 " Set 2253 '

Pay Zone: 2238 ' To: 2285 ' Total Depth: 2285 '

Choke Size: .750 " Choke Constant = C = 14.1605

Stimulation Method: Sand oil frac Flow Through: Casing X Tubing

Shut-In Pressure Casing: 631 psig / 12 = 043 psia (Shut-in 7 days)

Shut-In Pressure Tubing: 631 psig / 12 = 043 psia

Flowing Pressure: P : 130 psig / 12 = 151 psia

Working Pressure: P_w : 156 psig / 12 = 168 psia

Temperature: T : 66 °F / 460 = 526 ° Absolute

F_{pv} (from tables) : 1.011 Gravity 1.000 est. n .85

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

$$= 14.1605 \times 1.011 \times .9943 \times 1.000 \times 1.011 = 2149 \text{ MCF/D}$$

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

Aof = 2149
$$\left[\frac{413,449}{365,225} \right]^n = 2149(1.0733)^{.85} = 2149 \times 1.0620$$

Aof = 2282 MCF/D

Tested By: H. L. Kendrick

Witnessed By: Virgil Stoabs



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