

OPEN FLOW TEST DATA

Date: February 16, 1956

Operator: J. Glenn Turner

Lease: Huerfanito Unit # 14-1

Location: 990'S, 1450'E, Sec. 1, T26N, R9W

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: Ballard

Casing: 5 1/2 " Set @ 1949 '

Tubing: 1 " Set @ 2016 '

Pay Zone: 1949 ' To: 2025 '

Total Depth: 2025 '

Choke Size: 3/4 "

Choke Constant = C = 14.1605

Stimulation Method: Shot & sand oil frac. Flow Through: Casing X Tubing

Shut-In Pressure Casing: 643 psig / 12 = 655 psia (Shut-in 9 days)

Shut-In Pressure Tubing: 643 psig / 12 = 655 psia

Flowing Pressure: P : 58 psig / 12 = 70 psia

Working Pressure: P_w : 134 psig / 12 = 146 psia

Temperature: T : 55 °F / 460 = 515 ° Absolute

F_{pv} (from tables) : 1.011 Gravity .660 Est. n .85

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

$$Q = 14.1605 \times 70 \times 1.0048 \times .9535 \times 1.011 = \underline{960} \text{ MCF/D}$$

Open Flow = Aof = Q

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

Aof = 960

$$\left[\frac{429,025}{407,709} \right]^n$$

$$= 960(1.0523)^{.85} = 960 \times 1.0443$$

Aof =

1,003 MCF/D

Tested By: D. W. Mitchell

Witnessed By:



L. D. Galloway
L. D. Galloway

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