

OPEN FLOW TEST DATA

Date: May 18, 1956

Operator: Benson-Montin-Greer

Lease: Quitau #11

Location: 1316N, 1289E 3-25-8

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: Ballard

Casing: 5.5 " Set @ 2715 '

Tubing: 1 1/2 " Set @ 2757 '

Pay Zone: 2683 ' To: 2766 '

Total Depth: 2766 '

Choke Size: 0.750 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Oil Frac

Flow Through: Casing x Tubing

Shut-In Pressure Casing: 631 psig / 12 = 643 psia (Shut-in 33 days)

Shut-In Pressure Tubing: 632 psig / 12 = 644 psia

Flowing Pressure: P : 315 psig / 12 = 327 psia

Working Pressure: P_w : 345 psig / 12 = 357 psia

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

F_{pv} (from tables) : 1.034 Gravity 0.672 n 0.850

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

$$Q = 14.1605 \times 327 \times .9943 \times .9463 \times 1.034 = \underline{4,505} \text{ MCF/D}$$

Open Flow = Aof = Q

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

Aof = 4,505

$$\left[\frac{414,736}{287,287} \right]^n$$

$$= 1.4436^{.85} \times 4505 = 1.366 \times 4,505$$

Aof =

6,154 MCF/D

Tested By: Tom Grant

Witnessed By: Virgil Stoabs



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