

OPEN FLOW TEST DATA

Date: 2-2-63

Operator: SWAN ALAN

Lease: JICAPILLA #3-D

Location: SW/4 Sec. 11 T3N 2W

County: Rio Arriba State: N.M.

Formation: _____

Pool: _____

Casing: 4 1/2 " Set @ 3079

Tubing: 1 1/2 " Set @ 3015

Pay Zone: 3013 To: 3021

Total Depth: 3110

Choke Size: 3/4 TDC

Choke Constant = C = 12.385

Stimulation Method: _____

Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 967 psig / 12 = 979 psia (Shut-in 0 days)

Shut-in Pressure Tubing: 967 psig / 12 = 979 psia

Flowing Pressure: P : 230 psig / 12 = 242 psia

Working Pressure: P_w : 265 psig / 12 = 277 psia

Temperature: T : 37 °F / 460 = 497 °Absolute

F_{pv} (from tables) : 1.027 Gravity Est. .640 n .25

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

$$Q = \frac{12.385 \times 242 \times 1.0229 \times .9002 \times 1.027}{189,312} = \frac{3044}{189,312} \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

$$\left[\frac{P_c^2 - P_w^2}{189,312} \right]^n$$

$$= \frac{3044}{189,312} = 1.6080 \times 10^{-5}$$

Aof =

$$12.083 \text{ MCF/D}$$

Tested By: D. W. Stiles

Witnessed By: Don Burton



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