

OPEN FLOW TEST DATA

Date: July 30, 1969

Operator: Benjamin Elenbogen

Lease: Jicarilla 55 #3

Location: Sec. 35 23N 3W

County: Sandoval State: N.M.

Formation: Picture Cliff

Pool: Ballard

Casing: 4 1/2 " Set @ 2933

Tubing: 1 1/2 " Set @ 2763

Pay Zone: 2756 ' To: 2779

Total Depth: 2897

Choke Size: 3/4" THC

" Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 521 psig / 12 = 533 psia (Shut-in _____ days)

Shut-in Pressure Tubing: 521 psig / 12 = 533 psia

Flowing Pressure: P : 169 psig / 12 = 181 psia

Working Pressure: P_w : 467 psig / 12 = 479 psia

Temperature: T : 54 °F / 460 = 512 °Absolute

F_{pv} (from tables) : 1.021 Gravity 670 n 85

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

$$12.355 \times 181 \times 1.0058 \times .9463 \times 1.021$$

$$Q =$$

$$= 2175 \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

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

$$\left[\frac{284,089}{54,648} \right]^n$$

n

$$= 5.1985 = 3.0577$$

Aof =

$$6655 \text{ MCF/D}$$

Tested By: _____

Witnessed By: _____



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