

OPEN FLOW TEST DATA

Date: 12-23-63

Operator: Shar Alan Oil Co.

Lease: Henry Schmitz # 2

Location: NE/4 Sec. 34-24N-1W

County: R A State: N M

Formation: Torreon Puerco

Pool: _____

Casing: 4 1/2 " Set @ 3045
2770 2780

Tubing: 1 1/2 " Set @ 2750

Pay Zone: 2757 ' To: 2765

Total Depth: 2900

Choke Size: 3/4 THC

" Choke Constant = C = 12.365

Stimulation Method: _____

Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 625 psig / 12 = 637 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 624 psig / 12 = 636 psia

Flowing Pressure: P : 116 psig / 12 = 128 psia

Working Pressure: P_w : 567 psig / 12 = 579 psia

Temperature: T : 42 °F / 460 = 502 °Absolute

F_{pv} (from tables) : 1.012 Gravity Est. 620 n 85

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

$$12.365 \times 128 \times 1.0178 \times .9837 \times 1.012$$

$$Q =$$

$$= \underline{1604} \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

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

$$\left[\frac{405,769}{70,528} \right]^n$$

$$= 5.7533 = 4.4251$$

Aof =

$$\underline{7.098} \text{ MCF/D}$$

Tested By: _____

Witnessed By: _____



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B. H. Rogers