

OPEN FLOW TEST DATA

Date: October 20, 1959

Operator: B. & S. Drilling Co. Lease: B. & S. Drilling Co.

Location: 1 - 27th - 9th County: Garfield State: N.M.

Formation: MESA VERDE Pool: McMurry

Casing: 5 1/2 " Set @ 4345 - 505 Tubing: 2 " Set @ 3570

Pay Zone: 4435 To: 4535 Total Depth: 4835

Choke Size: 3/4 Choke Constant = C = 12,365

Stimulation Method: None Flow Through: Casing None Tubing None

Shut-in Pressure Casing: 973 psig / 12 = 905 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 973 psig / 12 = 905 psia

Flowing Pressure: P : 224 psig / 12 = 224 psia

Working Pressure: P_w : 507 psig / 12 = 507 psia

Temperature: T : 76 °F / 460 = 536 °Absolute

F_{pv} (from tables) : 1.022 Gravity .879 n 75

$$\text{Choke Volume} = Q = \frac{C \times P_t \times F_t \times F_g \times F_{pv}}{Q} = \frac{12,365 \times 224 \times .905 \times .945 \times 1.022}{Q} = 2630 \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

Aof =

$$\left[\frac{P_c^2 - P_w^2}{970,225 - 700,864} \right]^{1/n} = 1.2692$$

$$\left[\frac{P_c^2 - P_w^2}{3049} \right]^{1/n} = 1.2692$$



Tested By: D. H. Stiles

Witnessed By: CLIVE FURRILL

Dr. L. L. Stiles, Inc.