

OPEN FLOW TEST DATA

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Date: FEBRUARY 25, 1960

Operator: MOUNTAIN STATE PETROLEUM Lease: FEDERAL 30 F

Location: M 30 - 28 - 2 County: RIO ARriba State: N.M.

Formation: PICTURED CLIFF Pool: PINE LAKE

Casing: 4 1/2 " Set @ 4029 ' Tubing: 1 1/4 " Set @ 4001 '
3988 4002

Pay Zone: 3950 ' To: 3974 ' Total Depth: 4030 '
3950

Choke Size: 3/4 B M " Choke Constant = C = 14.1605

Stimulation Method: S W F Flow Through: Casing 1 1/4 Tubing X

Shut-in Pressure Casing: 1037 psig / 12 = 1049 psia (Shut-in 7 days)

Shut-in Pressure Tubing: 1037 psig / 12 = 1049 psia

Flowing Pressure: P : 78 psig / 12 = 90 psia

Working Pressure: P_w : 995 psig / 12 = 1007 psia

Temperature: T : 40 °F / 460 = 500 °Absolute

F_{pv} (from tables) : 1.009 Gravity .600 n 85

$$\text{Choke Volume} = Q = \frac{C \times P_c^2 \times F_t \times F_g \times F_{pv}}{Q} = \frac{14.1605 \times 90 \times 1.0198 \times 1.000 \times 1.009}{Q} = \underline{1311} \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

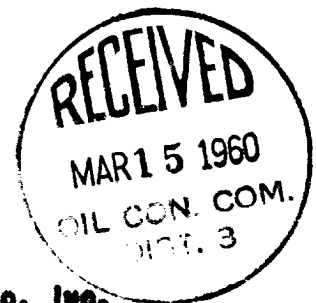
$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1,100,401}{86,352} = 8.6958$$

Aof =

$$\underline{11,400} \text{ MCF/D}$$

Tested By: D. W. STILES

Witnessed By: BILL PEYTON



GEOLECTRIO, INC.

AGENT

