OPEN FLOW TEST DATA

Date: FEBRUARY 25, 1960

Operator: MOUNTAIN STATES PETROLEUM Lease: FEDERAL 30 F

Location: M 30 - 26 - 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 '

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

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

Q = 14.1605 x 90 x 1.0198 x 1.000 x 1.009 = 1311 MCF/D

Open Flow - Aof = Q $\left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$

Aof = $\left(\frac{1,100,401}{86,362} \right)^n$ = 8.6958

Aof = 11,400 MCF/D

RECEIVED
MAR 15 1960
OIL CON. COM.
DIST. 3

Tested By: D. W. STILES

Witnessed By: BILL PEYTON

GEOLECTRIC, INC.

B. A. Kleyn

AGENT