

OPEN FLOW TEST DATA

Date: January 4, 1957

Operator: W. P. CARR
 Location: 790' FNL, 1550' FEL
Sec. 10, Twp. 30N, Rge. 11W
 Formation: Mesa Verde

Lease: HAMPTON #3
 County: San Juan State: N. Mex
 Pool: Blanco Mesa Verde

Casing: 7" Set @ 4458' Tubing: 2-3/8" Set @ 4638'
 Liner: 5-1/2" 4757
 Pay Zone: 4534-40 and To: 4552-72, 4578-4610 Total Depth: 4757'

Choke Size: 3/4" Choke Constant = C = 14,1605

Stimulation Method: Sand-Water Flow Through: Casing Tubing x

Shut-In Pressure Casing: 1031 psig / 12 = 1043 psia (Shut-in 7 days)

Shut-In Pressure Tubing: 1027 psig / 12 = 1039 psia

Flowing Pressure: P : 317 psig / 12 = 329 psia

Working Pressure: P_w : 771 psig / 12 = 783 psia

Temperature: T : 67 °F / 460 = 527 ° Absolute

F_{pv} (from tables) : 1.035 Gravity Est. 0.670 n 0.75

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}
 = (14,1605)x(329)x(.9933)x (.9463)x(1.034) = 4,528 MCF/D

Open Flow = Aof = $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$
 Aof = 4,528 $\left[\frac{1,087,849}{1,087,849 - 613,089} \right]^n = 1.8624$

Aof = 8,433 MCF/D

Tested By: Virgil L. Stoabs
 Witnessed By: D. W. Stiles



Virgil L. Stoabs

