

OPEN FLOW TEST DATA

Date: 10-25-63

Operator: W. P. Carr Lease: Carr State # 1

Location: 16-30N-7W County: RA State: N. M.

Formation: Mesa Verde Pool: Mesa Verde

Casing: 4 1/2 " Set @ 5540 ' Tubing: 2 " Set @ 5464

Pay Zone: 5100 ' To: 5490 ' Total Depth: 5540

Choke Size: 3/4 THC " Choke Constant = C = 12.365

Stimulation Method: SWF Flow Through: Casing Tubing X

Shut-in Pressure Casing: 890 psig / 12 = 902 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 890 psig / 12 = 902 psia

Flowing Pressure: P : 315 psig / 12 = 327 psia

Working Pressure: P_w : 712 psig / 12 = 724 psia

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

F_{pv} (from tables) : 1.029 Gravity .650 n .75

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

$$12.365 \times 327 \times .9850 \times .9608 \times 1.029 = \underline{3938} \text{ MCF/D}$$

$$\text{Open Flow} - A_{of} = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$A_{of} = \left[\frac{813,604}{289,428} \right]^n = 2.8111 = 2.1709$$

$$A_{of} = \underline{8549} \text{ MCF/D}$$

Tested By: D. W. Stiles

Witnessed By:



Geolectric, Inc.

B. H. [Signature]