

OPEN FLOW TEST DATA

Date: May 14, 1956

Operator: El Paso Natural Gas Company Lease: Jicarilla #2-B

Location: 1750N, 2313E, 34-25-4 County: Rio Arriba State: N. M.

Formation: Pictured Cliff Pool: Wildcat

Casing: 5 1/2 " Set G 3450 ' Tubing: 2 " Set 3258 '
 Pay Zone: 3247 ' To: 3289 ' Total Depth: C O 3,300 '
 Choke Size: .750 " Choke Constant = C = 14.1605

Stimulation Method: Sand oil frac Flow Through: Casing _____ Tubing x

Shut-In Pressure Casing: 1019 psig / 12 = 1031 psia (Shut-in 10 days)
 Shut-In Pressure Tubing: 1018 psig / 12 = 1030 psia
 Flowing Pressure: P : 540 psig / 12 = 552 psia
 Working Pressure: P_w : 869 psig / 12 = 881 psia
 Temperature: T : 61 °F / 460 = 521 ° Absolute
 F_{pv} (from tables) : 1.073 Gravity .718 n .85

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

$$= 14.1605 \times 552 \times .9990 \times .9193 \times 1.073 = \underline{7703} \text{ MCF/D}$$

$$\text{Open Flow} = Aof = C \left[\frac{P_c^2}{P_c^2 - F_w^2} \right]^n$$

$$Aof = \left[\frac{1,062,961}{286,800} \right]^n = 7,703(4.0550)^{.85} = 7703 \times 3.290$$

$$Aof = \underline{25,343} \text{ MCF/D}$$

Tested By: H. L. Kendrick

Witnessed By: K. C. Mc Bride



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