

OPEN FLOW TEST DATA

Date: March 8, 1956
 Operator: El Paso Natural Gas Company Lease: Fields # 5
 Location: 1847'S, 790'W, S28, T32N, R11W County: San Juan State: N.M.
 Formation: Mesa Verde Pool: Blanco
 Casing: 5 1/2 " @ 3210 ' Set @ 5610 ' Tubing: 2 " Set @ 5581 '
 Pay Zone: 4830 ' To: 5590 ' Total Depth: 5610 '
 Choke Size: 3/4 " Choke Constant = C = 14.1605
 Stimulation Method: Sand Water Frac. Flow Through: Casing _____ Tubing X
 Shut-In Pressure Casing: 1053 psig / 12 = 1065 psia (Shut-in 93 days)
 Shut-In Pressure Tubing: 1042 psig / 12 = 1054 psia
 Flowing Pressure: P : 414 psig / 12 = 426 psia
 Working Pressure: P_w : 969 psig / 12 = 981 psia
 Temperature: T : 77 °F / 460 = 537 ° Absolute
 F_{pv} (from tables) : 1.038 Gravity .650 est. n .75

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

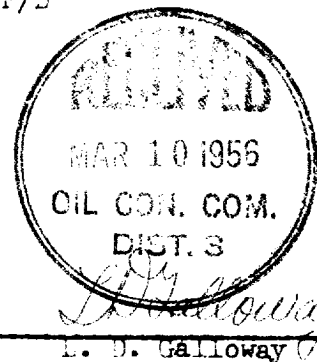
$$= 14.1605 \times 426 \times .9840 \times .9608 \times 1.038 = 5920 \text{ MCF/D}$$

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

$$A_{of} = 5920 \left[\frac{1,134,225}{171,864} \right]^n = 5920 (6.60)^{.75} = 5920 \times 4.12$$

$$A_{of} = 24,390 \text{ MCF/D}$$

Tested By: D. W. Mitchell
 Witnessed By: _____



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