

OPEN FLOW TEST DATA

Date: 7/7/59
 Operator: ELVIS ROBERTS Lease: BERGIN 1
 Location: NW / SE 21-29N-11W County: SAN JUAN State: N.M.
 Formation: FARMINGTON Pool: FARMINGTON
 Casing: 5 1/8 " Set @ 1621 ' Tubing: 1 " Set @ 500 '
 Pay Zone: 672 ' To: 790 ' Total Depth: 1915 '
 Choke Size: 3/4 " Choke Constant = C = 14.1605
 Stimulation Method: SWF Flow Through: Casing _____ Tubing x
 Shut-In Pressure Casing: 407 psig / 12 = 419 psia (Shut-in 8 days)
 Shut-In Pressure Tubing: 407 psig / 12 = 419 psia
 Flowing Pressure: P : 30 psig / 12 = 42 psia
 Working Pressure: P_w : 54 psig / 12 = 66 psia
 Temperature: T : 84 °F / 460 = 544 ° Absolute
 F_{pv} (from tables) : 1.006 Gravity .650 Est n 85

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

$$Q = \frac{14.1605 \times 42 \times .9777 \times .9608 \times 1.000}{\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n} = \underline{559} \text{ MCF/D}$$

$$14.1605 \times 42 \times .9777 \times .9608 \times 1.000$$

$$\text{Open Flow} = Aof = Q$$

$$Aof =$$

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{419}{419 - 66} = 1.0215$$

$$Aof =$$

$$\underline{571} \text{ MCF/D}$$

Tested By: GEOLECTRIC, INC.

Witnessed By: D.U. PRICE



B. H. Hayes