

OPEN FLOW TEST DATA

Date: JANUARY 23, 1961

Operator: WOODROW STILES Lease: RANSOM # 1

Location: 13 - 29 1/2 - 11W County: SAN JUAN State: NEW MEX.

Formation: FRUITLAND Pool: AZTEC FRUITLAND

Casing: 7" " Set @ 1890 ' Tubing: " Set @

Pay Zone: 1608 ' To: 1625 ' Total Depth: 1700

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

Stimulation Method: S W F Flow Through: Casing X Tubing

Shut-in Pressure Casing: 492 psig / 12 = 504 psia (Shut-in 0 days)

Shut-in Pressure Tubing: psig / 12 = psia

Flowing Pressure: P : 60 psig / 12 = 72 psia

Working Pressure: P_w : psig / 12 = 72 psia

Temperature: T : 62 °F / 460 = 522 °Absolute

F_{pv} (from tables) : 1.011 Gravity .670 Est. n .85

$$\text{Choke Volume} = Q = C \times P_c^2 \times F_t \times F_g \times F_{pv}$$

$$12.365 \times 72 \times .9981 \times .9463 \times 1.011 = 850 \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0176$$

$$\frac{254,016}{248,832}$$

Aof =

865

MCF/D

Tested By: GEOTECHNICAL, INC.

