

OPEN FLOW TEST DATA

Date: 6-22-62
 Operator: UNION TEXAS PET. CORP. Lease: NMA
 Location: SE/NE 16-29-12 County: SAN JUAN State: N. Mex.
 Formation: DAKOTA Pool: BASIN DAKOTA
 Casing: 4 1/2 " Set @ 6462 ' Tubing: 2 " Set @ 6353
 Pay Zone: 6358 ' To: 6360 ' Total Depth: 6422
 Choke Size: 3/4 THG " Choke Constant = C = 12.365
 Stimulation Method: _____ Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 2095 psig / 12 = 2107 psia (Shut-in 7 days)
 Shut-in Pressure Tubing: 2100 psig / 12 = 2112 psia
 Flowing Pressure: P : 294 psig / 12 = 306 psia
 Working Pressure: P_w : 765 psig / 12 = 777 psia
 Temperature: T : 84 °F / 460 = 544 °Absolute
 F_{pv} (from tables) : 1.027 Gravity .650 Est. n .85

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

$$Q = 12.365 \times 306 \times .9777 \times .9608 \times 1.027 = \underline{3651} \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

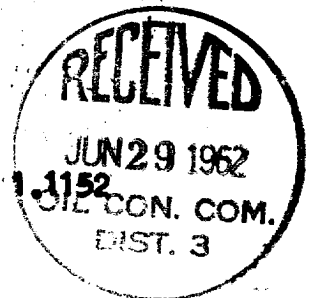
$$\left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{.85} = \left[\frac{2112^2 - 777^2}{2112^2} \right]^{.85}$$

$$= \frac{4,460,544}{3,856,815}$$

Aof =

4.072

MCF/D



Tested By: D. W. STILES

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