

OPEN FLOW TEST DATA

Date: June 19, 1956

Operator: Redfern-Markham Lease: #1 Redfern

Location: NE/16-28N-11W County: San Juan State: N.M.

Formation: Pictured Cliffs Pool: Falcher-Ratz

Casing: 4 1/2 " Set @ 1493 ' Tubing: " Set @ '
 Pay Zone: ' To: 1539 ' Total Depth: 1539 '
 Choke Size: 3/4 " Choke Constant = C = 12.3650

Stimulation Method: Flow Through: Casing X Tubing

Shut-In Pressure Casing: 376 psig / 12 = 388 psia (Shut-in days)
 Shut-In Pressure Tubing: 376 psig / 12 = 388 psia
 Flowing Pressure: P : 21 psig / 12 = 33 psia
 Working Pressure: P_w : 49 psig / 12 = 51 psia
 Temperature: T : 60 °F / 460 = 520 ° Absolute
 F_{pv} (from tables) : Gravity .645 n .85

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

$$= 12.3650 \times 33 \times 1.000 \times .9645 \times 1.000 = 394$$

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

$$Aof =$$

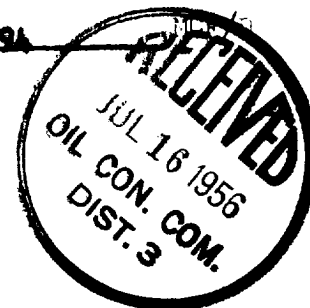
$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$\left[\frac{388^2}{388^2 - 51^2} \right]^n$$

$$= \frac{(150.544)}{(147.943)} \cdot .85 = (1.0176)^{.85} = 1.0149$$

400

MCF/D



Tested By:

W. J. McConathy

Witnessed By:

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 Geolastrie, Inc., Artec, N.M.

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