

OPEN FLOW TEST DATA

Date: Dec. 22 1959

Operator: TENNESSEE GAS TRANSMISSION CO

Lease: BERGEN GAS UNIT A-1

Location: J Sec 21 Twp 26N Rng 11W

County: SJ State: NH

Formation: Dakota

Pool: UNDESIGNATED

Casing: 4 1/2 " Set @ 6141

Tubing: 2 3/8 " Set @ 5967

Pay Zone: 5970 To: 6070

Total Depth: 6103

Choke Size: 3/4 D N

Choke Constant = C = 14.1605

Stimulation Method: _____ Flow Through: Casing _____ Tubing x

Shut-in Pressure Casing: 1955 psig / 12 = 1967 psia (Shut-in 5 days)

Shut-in Pressure Tubing: 1955 psig / 12 = 1967 psia

Flowing Pressure: P : 162 psig / 12 = 174 psia

Working Pressure: P_w : 797 psig / 12 = 809 psia

Temperature: T : 54 °F / 460 = 514 °Absolute

F_{pv} (from tables) : 1.022 Gravity 720 Est n 75

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

Q 14.1605 x 174 x 1.0058 x .9139 x 1.022 2312 MCF/D

Open Flow - Aof = Q

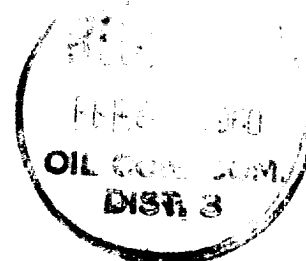
Aof =

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1491$$

3,869,089
3,214,600

Aof =

2697 MCF/D



Tested By: D W STILES

Witnessed By: DALE SHOOTER

Geological, Inc.

1953

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