

OPEN FLOW TEST DATA

Date: OCT. 6, 1959

Operator: TENNESSEE GAS & OIL

Lease: CALLOW 9

Location: SE 28 - 29 - 13

County: SAN JUAN State: NEW MEX.

Formation: San Juan

Pool: UNDESIGNATED

Casing: 7" Set @ 6379

Tubing: 2" Set @ 6150

Pay Zone: 6143 To: 6282

Total Depth: 6382 PBD 6345

Choke Size: 3/4 IN

" Choke Constant = C = 14.1605

Stimulation Method: S.W.F.

Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 2014 psig / 12 = 2026 psia (Shut-in 16 1/2 hrs. days)

Shut-in Pressure Tubing: 2014 psig / 12 = 2026 psia

Flowing Pressure: P : 373 psig / 12 = 385 psia

Working Pressure: P_w : 1082 psig / 12 = 1094 psia

Temperature: T : 78 °F / 460 = 538 °Absolute

F_{pv} (from tables) : 1.038 Gravity .670 EST. n .75

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

$$14.1605 \times 385 \times .9831 \times .9463 \times 1.038$$

$$Q = \underline{5265} \text{ MCF/D}$$

Open Flow - Aof = Q

Aof = 5265

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

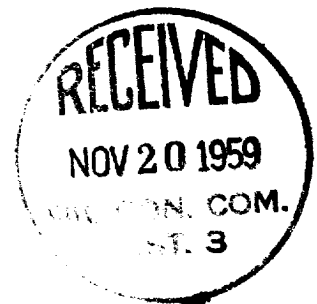
$$\left[\frac{4,104,676}{2,907,840} \right]^n$$

$$= 5265 (1.4116) = 5265 (1.2950)$$

Aof = 6818 MCF/D

Tested By: D. W. Stiles

Witnessed By: Arch Roberts
(Harry)



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