

OPEN FLOW TEST DATA

Date: August 31, 1959

Operator: Tempest Gas & Transmission Co.

Lease: Bergen # 4

Location: SW 1/4 22-26N-11W

County: SAN JUAN State: N.M.

Formation: DARBY

Pool: GALLEROS

Casing: 7" Set @ 6249

Tubing: 2" Set @ 6100

Pay Zone: 6245 To: 6107

Total Depth: 6249

Choke Size: 3/4

Choke Constant = C = 14,1605

Stimulation Method: SWF

Flow Through: Casing Tubing X

Shut-in Pressure Casing: psig / 12 = psia (Shut-in 8 days)

Shut-in Pressure Tubing: 1920 psig / 12 = 1922 psia

Flowing Pressure: P : 345 psig / 12 = 357 psia

Working Pressure: P_w : 805 psig / 12 = 817 psia

Temperature: T : 82 °F / 460 = 542 °Absolute

F_{pv} (from tables) : 1.039 Gravity .690 Est. n .75

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

$$14,1605 \times 357 \times .9795 \times .9325 \times 1.039$$

$$Q = \underline{\underline{4790}} \text{ MCF/D}$$

Open Flow - Aof = Q

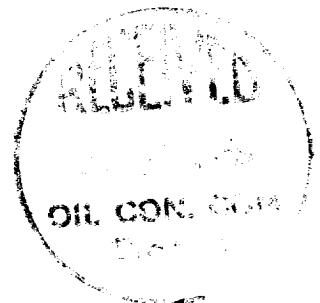
Aof =

$$\left[\begin{array}{c} P_c^2 \\ 1932 \\ P_c^2 - P_w^2 \\ 1932 - 817 \\ 3,732,624 \\ 3,065,135 \end{array} \right]^n$$

= 1.1592

Aof =

$$\underline{\underline{5262}} \text{ MCF/D}$$



Tested By: Geophysical, Inc.

Witnessed By: [Signature]

RECEIVED

SEP 1 1959

DURANGO DISTRICT