

OPEN FLOW TEST DATA

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Date: September 11, 1962

Operator: Shir Alan

Lease: Crane Federal 40

Location: NW Sec. 29 - 23 N - 1 W

County: Rio Arriba State: N. Mex.

Formation: _____

Pool: _____

Casing: 4 1/2 " Set @ 3290 ' Tubing: 1 " Set @ 3250

Pay Zone: 3224 ' To: 3234 ' Total Depth: 3260

Choke Size: 3/4" TNC " Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing X Tubing _____

Shut-in Pressure Casing: 801 psig / 12 = 813 psia (Shut-in 8 days)

Shut-in Pressure Tubing: _____ psig / 12 = _____ psia

Flowing Pressure: P : 147 psig / 12 = 159 psia

Working Pressure: P_w : _____ psig / 12 = _____ psia

Temperature: T : 48 °F / 460 = 508 °Absolute

F_{pv} (from tables) : 1.016 Gravity .620 Bbl. n 75

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

$12.365 \times 159 \times 1.0117 \times .9837 \times 1.016 = \underline{1988} \text{ MCF/D}$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \left[\frac{660,969}{635,688} \right]^n = 1.0398 = 1.0327$$

Aof = 2053 MCF/D

Tested By: R. E. Skiles

Witnessed By: _____

Gelectric, Inc.

[Signature]