

OPEN FLOW TEST DATA

Date: 10-21-62

Operator: SHAR-ALAN

Lease: Emma McDaniels #1

Location: 3E/4 Sec. 22-24N-1W

County: Rio Arriba State: N.M.

Formation: PICTURE CLIFF

Pool: SOUTH BEAVER

Casing: 4 1/2 " Set @ 2990

Tubing: 1 1/2 " Set @ 2914

Pay Zone: 2896 To: 2913

Total Depth: 2980

Choke Size: 3/4 THX

Choke Constant = C = 12.363

Stimulation Method: _____

Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 851 psig / 12 = 862 psia (Shut-in 2 days)

Shut-in Pressure Tubing: 851 psig / 12 = 863 psia

Flowing Pressure: P : 98 psig / 12 = 110 psia

Working Pressure: P_w : 244 psig / 12 = 256 psia

Temperature: T : 41 °F / 460 = 501 °Absolute

F_{pv} (from tables) : 1.011 Gravity .620 Eyr n .85

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

$$Q = 12.363 \times 110 \times 1.0188 \times .9837 \times 1.011 = 1378 \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0965 = 1.0915$$

744,769
679,233

$$Aof = 1490 \text{ MCF/D}$$

Tested By: D. W. Sullivan

Witnessed By: _____



GEOELECTRIC INC.

[Signature]