

OPEN FLOW TEST DATA

Date: 6-2-62

Operator: SHAR-ALAN Lease: JICARILLA A-1

Location: NE 1-23N-2W County: RIO ARriba State: NEW MEXICO

Formation: PICTURED CLIFF Pool: S. BLANCO

Casing: 4 1/2 " Set @ 3300 ' Tubing: 1 " Set @ 3272

Pay Zone: 3259 ' To: 3268 ' Total Depth: 3305

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

Stimulation Method: sand water frac Flow Through: Casing X Tubing

Shut-in Pressure Casing: 767 psig / 12 = 779 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 767 psig / 12 = 779 psia

Flowing Pressure: P : 170 psig / 12 = 182 psia

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

Temperature: T : 42 °F / 460 = 502 °Absolute

F_{pv} (from tables) : 1.018 Gravity Est. 620 n 85

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

$$12.365 \times 182 \times 1.0178 \times .9837 \times 1.018 = \frac{2250}{2294} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{1/n} = \left[\frac{779^2 - 182^2}{779^2} \right]^{1/n} = 1.0577^{(85)} = 1.0488$$

Aof = 2406 MCF/D

Tested By: Donald Burton

Witnessed By: Floyd Ray

SHAR-ALAN OIL COMPANY

By: Richard S. Hunt
 Richard S. Hunt
 Manager of Lands & Explorations