

OPEN FLOW TEST DATA

Date: 6/2/62

Operator: SHAR-ALAN

Lease: DOUTHIT BROWNING #1

Location: SE 5-23-1W

County: RIO ARriba State: NEW MEXICO

Formation: PICTURED CLIFF

Pool: S. BLANCO

Casing: 4 1/2 " Set @ 3215 ' Tubing: 1 " Set @ 3100

Pay Zone: 3174
3146 ' To: 3186
3165 ' Total Depth: 3220

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

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

Shut-in Pressure Casing: 757 psig / 12 = 769 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 757 psig / 12 = 769 psia

Flowing Pressure: P : 242 psig / 12 = 259 psia

Working Pressure: P_w : _____ psig $\div 12 =$ _____ psia

Temperature: T : 44 °F / 460 = 506 °Absolute

F_{pv} (from tables) : 1.026 Gravity Est. 620 n 85

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

$$12.365 \times 259 \times 1.0157 \times .9837 \times 1.026 = \frac{3203}{3283} \text{ MCF/D}$$

$$\text{Open Flow} - A_{of} = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1279 \quad (35) = 1.1067$$

Aof = 3633 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