

OPEN FLOW TEST DATA

Date: June 6, 1956

Operator: Amerada Petroleum Corporation Lease: Jicarilla Apache A # 2

Location: 1650'S, 1650'E, Sec. 24-25-5 County: Rio Arriba State: N.M.

Formation: Pictured Cliff Pool: South Blanco Pictured Cliff

Casing: 5.5 " Set: 4062 ' Tubing: 2 " Set: 3981 '

Pay Zone: 3132 ' To: 3148 ' Total Depth: 3975 '

Choke Size: 0.750 " Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac. Flow Through: Casing X Tubing

Shut-In Pressure Casing: 919 psig $\div 12 =$ 931 psia (Shut-in 15 days)

Shut-In Pressure Tubing: psig $\div 12 =$ psia

Flowing Pressure: P : 101 psig $\div 12 =$ 113 psia

Working Pressure: P_w : Calculated psig $\div 12 =$ 117 psia

Temperature: T : 68 °F $\div 1.60 =$ 528 ° Absolute

γ_v (from tables) : 1.011 Gravity 0.672 γ 0.850

$$\text{Choke Volume} = C = \frac{C}{P_c} \times P_c \times P_w \times P_g \times P_{gv}$$

$$= 14.1605 \times 113 \times .9924 \times .9463 \times \frac{1}{1.011} = \underline{1519} \text{ bbl/D}$$

Open Flow = $Q_{of} =$

$$Q_{of} = 1519$$

$$Q_{of} =$$

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.875}$$

$$\left[\frac{866,761}{853,072} \right]^{.875} = 1.0136 \times 1519$$

$$1540 \text{ bbl/D}$$



Tested By: Tom Grant

Witnessed By: Rex Turnbull (Amerada)

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