

OPEN FLOW TEST DATA

Date: March 5, 1956

Operator: Anderson-Prichard Oil Company Lease: Johnston Federal # 8

Location: 1090'S, 1090'W, Sec. 7, T31N, R9W County: San Juan State: N.M.

Formation: Mesa Verde Pool: Blanco

Casing: 5 1/2 " Set @ 5847 ' Tubing: 2 7/8 " Set @ ' Perforations

Pay Zone: 5284 ' To: 5790 ' Total Depth: 5847 ' Choke Size: 3/4 " Choke Constant = C = 14.1605

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

Shut-In Pressure Casing: 985 psig / 12 = 997 psia (Shut-in 8 days)

Shut-In Pressure Tubing: 984 psig / 12 = 996 psia

Flowing Pressure: P : 539 psig / 12 = 551 psia

Working Pressure: P_w : 862 psig / 12 = 874 psia

Temperature: T : 91 °F / 460 = 551 ° Absolute

F_{pv} (from tables) : 1.051 Gravity .680 est. n .75

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

$$Q = 14.1605 \times 551 \times .9715 \times .9393 \times \frac{1}{1.051} = 7483 \text{ MCF/D}$$

$$\text{Open Flow} = Aof = Q$$

$$Aof = 7483$$

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

$$\left[\frac{994,009}{230,133} \right]^n$$

$$= 7483(4.32)^{.75} = 7483 \times 3.0$$

$$Aof =$$

$$22,449$$

$$\text{MCF/D}$$

Tested By: D. W. Mitchell

Witnessed By: Frank O'Halloran, Anderson-Prichard

cc: Anderson-Prichard, Aztec and Denver



L. D. Galloway

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