

OPEN FLOW TEST DATA

Date: June 20, 1956

Operator: Melborne Petroleum Company

Lease: Troxell # 1

Location: 495'S, 330'W, Sec. 15-29-11

County: San Juan State: N.M.

Formation: Fruitland

Pool: Aztec Fruitland

Casing: 5 1/2 " Set @ 1543 '

Tubing: 1 " Set @ 1491 '

Pay Zone: 1500 ' To: 1528 '

Total Depth: 1543 '

Choke Size: 0.75 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac.

Flow Through: Casing X Tubing

Shut-In Pressure Casing: 605 psig / 12 = 617 psia (Shut-in 8 days)

Shut-In Pressure Tubing: 605 psig / 12 = 617 psia

Flowing Pressure: P : 105 psig / 12 = 117 psia

Working Pressure: P_w : 109 psig / 12 = 121 psia

Temperature: T : 68 °F / 460 = 528 ° Absolute

F_{pv} (from tables) : 1.010 Gravity .650 n .85

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

$$Q = 14.1605 \times 117 \times .9924 \times .9608 \times \frac{1}{1.010} = \underline{1596} \text{ MCF/D}$$

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

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

$$Aof = 1596$$

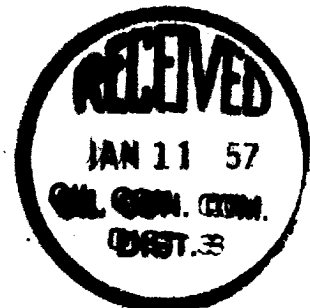
$$\left[\frac{380,689}{366,048} \right]^n$$

$$= (1.0399)^{.85} \times 1596 = 1.0338 \times 1596$$

$$Aof = \underline{1,650} \text{ MCF/D}$$

Tested By: K. C. McBride and R. A. Ullrich

Witnessed By: L. W. Kilgore (Consultant for Melborne)



L. D. Galloway