

OPEN FLOW TEST DATA

Date: May 28, 1956

Operator: El Paso Natural Gas Company Lease: Newberry # 5

Location: 1650'N, 1750'E, Sec. 5-31-12 County: San Juan State: N.M.

Formation: Mesa Verde Pool: Blanco Mesa Verde

Casing: 5.5 liner 4510 - 4900 Tubing: 2" Set @ 4841'

Pay Zone: 4680' To: 4836' Total Depth: 4900'

Choke Size: 0.750" Choke Constant = C = 14.1605

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

Shut-In Pressure Casing: 1063 psig / 12 = 1075 psia (Shut-in 12 days)

Shut-In Pressure Tubing: 1060 psig / 12 = 1072 psia

Flowing Pressure: P : 426 psig / 12 = 438 psia

Working Pressure: P_w : 899 psig / 12 = 911 psia

Temperature: T : 79 °F / 460 = 539 ° Absolute

F_{pv} (from tables) : 1.045 Gravity 0.683 n 0.750

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

$$Q = 14.1605 \times 438 \times .9822 \times .9359 \times \frac{1}{1.045} = 5958 \text{ MCF/D}$$

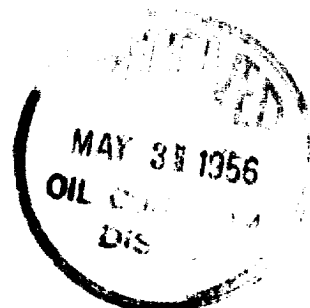
$$\text{Open Flow} = Aof = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$Aof = 5958 \left[\frac{1,155,625}{325,704} \right]^n = 2.585 \times 5958$$

$$Aof = 15,401 \text{ MCF/D}$$

Tested By: Tom Grant

Witnessed By:



L. D. Galloway
L. D. Galloway

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