

OPEN FLOW TEST DATA

Date: May 3, 1956

Operator: El Paso Natural Gas Company

Lease: Newberry # 7

Location: 990'S, 990'W, Sec. 4-31-12

County: San Juan State: N.M.

Formation: Mesa Verde

Pool: Blanco Mesa Verde

Casing: 5 1/2" liner 4559 - 5073
7 5/8" Set @ 4660

Tubing: 2" Set @ 4918

Pay Zone: 4779 To: 4866

Total Depth: 5070

Choke Size: 3/4"

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac.

Flow Through: Casing Tubing X

Shut-In Pressure Casing: 1055 psig / 12 = 1067 psia (Shut-in 8 days)

Shut-In Pressure Tubing: 1055 psig / 12 = 1067 psia

Flowing Pressure: P : 424 psig / 12 = 424 psia

Working Pressure: P_w : 880 psig / 12 = 892 psia

Temperature: T : 78 °F / 460 = 538 ° Absolute

F_{pv} (from tables) : 1.046 Gravity 0.70 est. n 0.75

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

$$Q = \frac{14.1605 \times 424 \times .9831 \times .9258}{1.046} = 5716 \text{ MCF/D}$$

Open Flow = Aof = Q

Aof = 5716

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

$$\left[\frac{1,138,489}{342,825} \right]^n$$

$$= (3.321)^{.75} Q = 2.459 (Q)$$

Aof =

14,056

MCF/D

Tested By: D. C. Adams

Witnessed By:



Lewis D. Galloway
L. D. Galloway

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