

OPEN FLOW TEST DATA

Date: May 21, 1956

Operator: El Paso Natural Gas Company Lease: Rincon #83

Location: 990N, 1650E, 23-27-6 County: Rio Arriba State: N.M.

Formation: Mesa Verde Pool: Mesa Verde

Casing: 5½ " Set @ 5755 ' Tubing: 2 " Set @ 5698 '

Pay Zone: 4946 ' To: 5660 ' Total Depth: 5755; c/o 5690 '

Choke Size: .750 " Choke Constant = C = 14.1605

Stimulation Method: Sand water frac Flow Through: Casing _____ Tubing X

Shut-In Pressure Casing: 1050 psig / 12 = 1062 psia (Shut-in 8 days)

Shut-In Pressure Tubing: 1013 psig / 12 = 1025 psia

Flowing Pressure: P : 355 psig / 12 = 367 psia

Working Pressure: P_w : 795 psig / 12 = 807 psia

Temperature: T : 72° °F / 460 = 532 ° Absolute

F_{pv} (from tables) : 1.039 Gravity .684 n .75

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

$$= 14.1605 \times 367 \times .9887 \times .9359 \times 1.039 = 4996 \text{ MCF/D}$$

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

$$Aof = \frac{Q}{2.3664 \times 4996} = 1.908 \times Q$$

$$Aof =$$

$$4996$$

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

$$\left[\frac{1,127,844}{476,595} \right]^n$$

$$= 2.3664 \times 4996 = 1.908 \times Q$$

$$Aof =$$

$$9532$$

$$\text{MCF/D}$$

Tested By: K. C. Mc Bride

Witnessed By: Tom Grant



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