

OPEN FLOW TEST DATA

Date: May 22, 1956

Operator: El Paso Natural Gas Company Lease: Rincon #80

Location: 1090 N 1636 E, 18-27-6 County: Rio Arriba State: N.M.

Formation: Mesa Verde Pool: Blanco Mesa Verde

Casing: 5½ " Set @ 5630 ' Tubing: 2 " Set @ 5546 '
 Pay Zone: 4890 ' To: 5502 ' Total Depth: 5630; C/O 5,580 '
 Choke Size: ¾ " Choke Constant = C = 14.1605

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

Shut-In Pressure Casing: 1095 psig / 12 = 1107 psia (Shut-in _____ days)
 Shut-In Pressure Tubing: 1090 psig / 12 = 1102 psia
 Flowing Pressure: P : 446 psig / 12 = 458 psia
 Working Pressure: P_w : 939 psig / 12 = 951 psia
 Temperature: T : 80 °F / 460 = 540 ° Absolute
 F_{p_v} (from tables) : 1.044 Gravity .672 n .75

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

$$= 14.1605 \times 458 \times .9813 \times .9463 \times 1.044 = \underline{6287} \text{ MCF/D}$$

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

$$Aof = \frac{6287 \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n}{321,048} = \frac{6287 \left[\frac{1,225,449}{321,048} \right]^{.75}}{321,048} = 3.817 \times Q = 2.732 \times Q$$

$$Aof = \underline{17.176} \text{ MCF/D}$$

Tested By: K. C. Mc Bride

Witnessed By: _____



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