

# OPEN FLOW TEST DATA

Dual Completion

Date: July 3, 1956

Operator: El Paso Natural Gas Company

Lease: Ludwick # 7 (Mesa Verde)

Location: 1650'S, 990'W, Sec. 31-30-10

County: San Juan State: N.M.

Formation: Mesa Verde

Pool: Blanco

Casing: 7 5/8 " Set 4273 4195 - 4922 '

Tubing: 2 " Set 4833 '

Pay Zone: 4666 ' To: 4908 '

Total Depth: 4910 '

Choke Size: .750 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac.

Flow Through: Casing \_\_\_\_\_ Tubing X

Shut-In Pressure Casing: \_\_\_\_\_ psig / 12 = \_\_\_\_\_ psia (Shut-in 23 days)

Shut-In Pressure Tubing: 1035 psig / 12 = 1047 psia

Flowing Pressure: P : 338 psig / 12 = 350 psia

Working Pressure: P<sub>w</sub> : Calculated psig / 12 = 737 psia

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

F<sub>pv</sub> (from tables) : 1.035 Gravity .685 n .75

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

$$= 14.1605 \times 350 \times .9822 \times .9359 \times \frac{1}{1.035} = 4715 \text{ MCF/D}$$

Open Flow = Aof =  $Q$

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

Aof = 4715

$$\left[ \frac{1,096,209}{553,167} \right]^n$$

$$= 4715(1.9817)^{.75} = 4715 \times 1.670$$

Aof =

7874

MCF/D

Tested By: T. B. Grant

Witnessed By: \_\_\_\_\_



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# OIL CONSERVATION COMMISSION

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