

# OPEN FLOW TEST DATA



Date: 1/7/59

Operator: TENNESSEE GAS TRANSMISSION Co. Lease: BERGER #2

Location: 23-26N-11W County: SAN JUAN State: NM

Formation: DAKOTA Pool: WILDCAT

Casing: 7" Set @ 6387 Tubing: 2 Set @ 6155

Pay Zone: 6198 To: 6237 Total Depth: 6455

Choke Size: 3/4 Choke Constant = C = 14.1605

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

Shut-In Pressure Casing: 1222 psig / 12 = 1234 psia (Shut-in 8 days)

Shut-In Pressure Tubing: 1894 psig / 12 = 1906 psia

Flowing Pressure: P : 412 psig / 12 = 424 psia

Working Pressure: P<sub>w</sub> : \_\_\_\_\_ psig / 12 = 798 psia (CALCULATED)

Temperature: T : 69 °F / 460 = 529 ° Absolute

F<sub>pv</sub> (from tables) : \_\_\_\_\_ Gravity .700 n .75

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

$$Q = 14.1605 \times 424 \times .9915 \times .9258 \times 1.050 = 5787 \text{ MCF/D}$$

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

$$Aof = \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.554$$

$$Aof = \left[ \frac{3,632,836}{2,996,052} \right]^n = 1.554$$

$$Aof = 6686 \text{ MCF/D}$$



Tested By: GELECTRIC, INC.  
D.W. STILES

Witnessed By: JOHN HAY

GELECTRIC, INC.  
B. J. Hayes

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