

# OPEN FLOW TEST DATA

Date: 1/15/59

Operator: TENNESSEE GAS TRANSMISSION CO.

Lease: BERGER #2

Location: 23-26N-11W

County: SAN JUAN State: NM

Formation: GALLUP

Pool: WILDCAT

Casing: 7 " Set @ 6387 '

Tubing:        " Set @        '

Pay Zone: 5326 ' To: 5495 '

Total Depth: 6455 '

Choke Size: 3/4 "

Choke Constant = C = 14.1605

Stimulation Method:        Flow Through: Casing X Tubing       

Shut-In Pressure Casing: 1230 psig / 12 = 1242 psia (Shut-in 8 days)

Shut-In Pressure Tubing:        psig / 12 =        psia

Flowing Pressure: P : 310 psig / 12 = 322 psia

Working Pressure: P<sub>w</sub> :        psig / 12 = 722 psia (CALCULATED P<sub>w</sub>)

Temperature: T : 48 °F / 460 = 508 ° Absolute

F<sub>pv</sub> (from tables) : 1.037 Gravity .650 EST. n 75

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

$$Q = 14.1605 \times 322 \times 1.0117 \times .9608 \times 1.037 = 4596 \text{ MCF/D}$$

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

$$Aof = \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,3624$$

$$Aof = \left[ \frac{1,542,564}{1,021,280} \right]^n = 1,3624$$

$$Aof = 6,262 \text{ MCF/D}$$

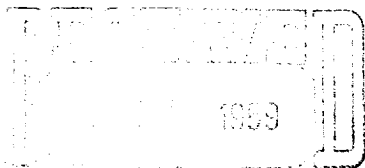


Tested By: GEOLECTRIC, INC.  
D. W. STILES

Witnessed By:       

GEOLECTRIC, INC.

*[Signature]*



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