

PLAN FLOW TEST DATA

Date: MAY 25, 1959

Operator: R & G DRILLING Co. Lease: MARRON 42

Location: W/2 22-27N-8W County: SAN JUAN State: N.MEX.

Formation: MESA VERDE Pool: MESA VERDE

Casing: 4 1/2 " Set at 4558 ' Tubing: 2 " " Set at 6560 '

Pay Zone: 4408 ' To: 4494 ' Total Depth: 6596 '

Choke Size: 3/4 " B M " Choke Constant = C = 14.1605

Stimulation Method: S W F Flow Through: Casing X Tubing

Shut-in Pressure Casing: 1012 psig / 12 = 1024 psia (Shut-in 7 days)

Shut-in Pressure Tubing: psig / 12 = psia

Flowing Pressure: P_w : 62 psig / 12 = 74 psia

Working Pressure: P_w : psig / 12 = 186 psia CALCULATED

Temperature: T : 70 °F / 460 = 530 °Absolute

F_{gv} (from tables) : 1.009 Gravity .670 EST n .85

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

$$Q = 14.1605 \times 74 \times .9905 \times .9463 \times 1.009 = 991 \text{ MCF/D}$$

Open Flow - Aof =

Aof =

Aof =

$$\left[\frac{P_c^2 (1024)^2}{P_c^2 - P_w^2 (186)^2} \right]^n = 1.0254$$

$$\left[\frac{1,048,576}{1,013,980} \right]^n = 1.0254$$

1016 MCF/D

Tested By: GEOLECTRIC, INC.

Witnessed By:

