

OPEN FLOW TEST DATA

Date: July 5, 1956

Operator: El Paso Natural Gas Company

Lease: San Juan 32-9 # 42

Location: 1094'N, 1090'E, Sec. 6-31N-9W

County: San Juan State: N.M.

Formation: Mesa Verde

Pool: Blanco Mesa Verde

Casing: 5 1/2 " Set 5946 '

Tubing: 2 " Set 5880 '

Pay Zone: 5348 ' To: 5886 '

Total Depth: 5946 '

Choke Size: 3/4 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac. Flow Through: Casing X Tubing X

Shut-In Pressure Casing: 989 psig / 12 = 1001 psia (Shut-in 7 days)

Shut-In Pressure Tubing: 989 psig / 12 = 1001 psia

Flowing Pressure: P : 399 psig / 12 = 411 psia

Working Pressure: P_w : 900 psig / 12 = 912 psia

Temperature: T : 82 °F / 460 = 542 ° absolute

F_{pv} (from tables) : 1.038 Gravity .670 n .75

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

$$= 14.1605 \times 411 \times .9795 \times .9463 \times \frac{1}{1.038} = \underline{5600} \text{ MCF/D}$$

Open Flow = Aof =

$$Aof = 5600$$

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

$$\left[\frac{1,002,001}{170,257} \right]^n$$

$$= 5600(5.885)^{.75} = 5600 \times 3.78$$

Aof =

21,168

SCF/D

Tested By: T. B. Grant

Witnessed By: _____



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