

OPEN FLOW TEST DATA

Date: March 6, 1956

Operator: El Paso Natural Gas Company

Lease: Zachery Pool Unit # 1

Location: 1604'S, 1630'W, "K", 25-31-11

County: San Juan State: N.M.

Formation: Mesa Verde

Pool: Blanco

Casing: 5 1/2 " Set @ 4890 '

Tubing: 2 " Set @ 4818 '

Pay Zone: 4712 ' To: 4840 '

Total Depth: 4890 '

Choke Size: .750 "

Choke Constant = C = 14.1605

Stimulation Method: Water Frac.

Flow Through: Casing _____ Tubing x

Shut-In Pressure Casing: 1080 psig / 12 = 1092 psia (Shut-in 67 days)

Shut-In Pressure Tubing: 1078 psig / 12 = 1090 psia

Flowing Pressure: P : 432 psig / 12 = 444 psia

Working Pressure: P_w : 882 psig / 12 = 894 psia

Temperature: T : 68° °F / 460 = 528 ° Absolute

F_{pv} (from tables) : 1.048 Gravity .675 n .75

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

$$Q = 14.1605 \times 444 \times .9924 \times .9427 \times \frac{1}{1.048} = 6164 \text{ MCF/D}$$

Open Flow = Aof = Q

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

Aof = 6164

$$\left[\frac{1,192,464}{393,228} \right]^n$$

$$= 6164(3.0325)^n = 6164 \times 2.297$$

Aof =

14,159

MCF/D

Tested By: H. L. Kendrick

Witnessed By: _____



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