

OPEN FLOW TEST DATA

Date: June 14, 1956

Operator: El Paso Natural Gas Company

Lease: San Juan 30-4 # 14

Location: 1176'N, 890'E, Sec. 21-30-4

County: Rio Arriba State: N.M.

Formation: Pictured Cliff

Pool: East Blanco, Pictured Cliff

Casing: 5 1/2 " Set 4570 '

Tubing: 2 " Set 4370 '

Pay Zone: 4255 ' To: 4512 '

Total Depth: 4570 - c/o - 4520 '

Choke Size: 0.750 "

Choke Constant = C = 14.1605

Stimulation Method: Water Frac.

Flow Through: Casing _____ Tubing X

Shut-In Pressure Casing: 1153 psig / 12 = 1165 psia (Shut-in 9 days)

Shut-In Pressure Tubing: 1153 psig / 12 = 1165 psia

Flowing Pressure: P : 370 psig / 12 = 382 psia

Working Pressure: P_w : 972 psig / 12 = 984 psia

Temperature: T : 60 °F / 460 = 520 ° Absolute

F_{pv} (from tables) : 1.029 Gravity 598 n 0.850

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

$$Q = 14.1605 \times 382 \times 1 \times 1.004 \times 1.029 = \underline{5588} \text{ MCF/D}$$

Open Flow = Aof = Q

NO. 11111111

301730 T. 11111111

Aof = 5588

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \left[\frac{1,357,225}{388,969} \right]^n$$

$$= 3.489^{.85} \times 5588 = 2.895 \times 5588$$

Aof =

16.177

MCF/D

Tested By: T. B. Grant and R. A. Ullrich

Witnessed By: _____



L. D. Galloway

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