

OPEN FLOW TEST DATA

Date: June 21, 1956

Operator: El Paso Natural Gas Company Lease: San Juan 32-9 Unit # 45

Location: 1068'S. 968'W. Sec. 12-31-10 County: San Juan State: N.M.

Formation: Mesa Verde Pool: Blanco Mesa Verde

Casing: 5 1/2 " Set @ 5546 ' Tubing: 2 " Set @ 5485 '

Pay Zone: 3942 ' To: 5474 ' Total Depth: 5546 - c/o - 5500 '

Choke Size: .750 " Choke Constant = C = 14.1605

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

Shut-In Pressure Casing: 1022 psig / 12 = 1034 psia (Shut-in 15 days)

Shut-In Pressure Tubing: 1020 psig / 12 = 1032 psia

Flowing Pressure: P : 401 psig / 12 = 413 psia

Working Pressure: P_w : 909 psig / 12 = 921 psia

Temperature: T : 83 °F / 460 = 513 ° Absolute

F_{pv} (from tables) : 1.034 Gravity .616 n .75

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

$$Q = 14.1605 \times 413 \times .9786 \times .9645 \times \frac{1}{1.034} = 5708 \text{ MCF/D}$$

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

$$Aof = 5708$$

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

$$\left[\frac{1,069,156}{220,915} \right]^n$$

$$= (4.8397)^{.75} \times 5708 = 3.262 \times 5708$$

$$Aof = 18,619 \text{ MCF/D}$$

Tested By: K. C. McBride and R. A. Ullrich

Witnessed By: _____

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