

OPEN FLOW TEST DATA

Date: June 12, 1956

Operator: El Paso Natural Gas Company Lease: King # 1

Location: 990'N, 890'E, Sec. 22-30-10 County: San Juan State: N.M.

Formation: Mesa Verde Pool: Blanco Mesa Verde

Casing: 5 1/2 " Set 5293 ' Tubing: 2 " Set 5228 ' ,

Pay Zone: 5148 ' To: 5255 ' Total Depth: 5322' - c/o - 5258' ,

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

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

Shut-In Pressure Casing: 939 psig / 12 = 951 psia (Shut-in 14 days,

Shut-In Pressure Tubing: 935 psig / 12 = 947 psia

Flowing Pressure: P : 206 psig / 12 = 218 psia

Working Pressure: P_w : 491 psig / 12 = 503 psia

Temperature: T : 78 °F / 460 = 538 ° Absolute

F_{pv} (from tables) : 1.022 Gravity .706 n .75

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

$$= 14.1605 \times 218 \times .9831 \times .9225 \times \frac{1}{1.022} = 2861 \text{ MCF/D}$$

$$\text{Open Flow} = Aof = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$Aof = 2861 \left[\frac{904,401}{651,392} \right]^n = (1.3884)^{.75} \times 2861 = 1.279 \times 2861$$

$$Aof = 3,659 \text{ MCF/D}$$

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

Witnessed By: _____



L. D. Galloway by L. D. Galloway

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