

OPEN FLOW TEST DATA

Date: April 3, 1956
 Operator: El Paso Natural Gas Company Lease: Stewart # 5
 Location: 1650'S, 990'W, Sec. 20-30-10 County: San Juan State: N.M.
 Formation: Mesa Verde Pool: Blanco Mesa Verde
 Casing: 5½ " Set @ 5175 ' Tubing: 2 " Set @ 5078 '
 Pay Zone: 4686 ' To: 5074 ' Total Depth: 5200' - C.O. - 5100' '
 Choke Size: 0.75 " Choke Constant = C = 14.1605
 Stimulation Method: Sand Water Frac. Flow Through: Casing _____ Tubing x
 Shut-In Pressure Casing: 1168 psig / 12 = 1180 psia (Shut-in 8 days)
 Shut-In Pressure Tubing: 1170 psig / 12 = 1182 psia
 Flowing Pressure: P : 238 psig / 12 = 250 psia
 Working Pressure: P_w : 668 psig / 12 = 680 psia
 Temperature: T : 75 °F / 460 = 535 ° Absolute
 F_{pv} (from tables) : 1.025 Gravity 0.70 est. n 0.75

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

$$Q = 14.1605 \times 250 \times .9859 \times .9258 \times \frac{1.025}{1.025} = 3312 \text{ MCF/D}$$

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

$$Aof = 3312 \left[\frac{1,392,400}{930,000} \right]^n = (1.4972)^{.75} Q = (1.354) Q$$

$$Aof = 4484 \text{ MCF/D}$$

Tested By: L. D. Galloway
 Witnessed By: _____



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