

OPEN FLOW TEST DATA

DATE 8-31-70

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 149	
Location 1790 N, 790 W, S 31, T28N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2866	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2696	To 2722	Total Depth: 2866	Shut In 8-23-70
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 906	+ 12 = PSIA 918	Days Shut-In 8	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 106	+ 12 = PSIA 118	Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 146		
Temperature: T = 63 °F	n = .85	Fpv (From Tables) 1.011	Gravity .670	Fg = .9463	

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = 12.365 \times 118 \times .9971 \times .9463 \times 1.011 = 1392 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

Note: Blew light fog of water throughout the test.

$$Aof = \left(\frac{842724}{821408} \right)^n = (1.0259)^{.85} (1392) = (1.0220) (1392)$$

$$Aof = 1,423 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY



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