

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 21, 1963

Operator El Paso Natural Gas Company		Lease Allison Unit No. 6 (OWWO)	
Location 1600'S, 1650'W, Sec. 16, T-32-N, R-6-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 5440	Tubing: Diameter No Tubing	Set At: Feet ----
Pay Zone: From 5284	To 5294	Total Depth: PBTD 5330	Shut In 10-14-63
Stimulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		TUBINGLESS COMPLETION	
Shut-In Pressure, Casing, PSIG 699	+ 12 = PSIA 711	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA ----	
Flowing Pressure: P PSIG 58	+ 12 = PSIA 70	Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 98		
Temperature: T = 67 °F	n = Ft = .9933	Fpv (From Tables) 1.006	Gravity .585	Fg = 1.012	

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365)(70)(.9933)(1.012)(1.006) = \underline{875} \text{ MCF/D}$$

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

$$Aof = \left(\frac{505,521}{495,917} \right)^n = (1.0193)^{.75}(875) = (1.0144)(875)$$

$$Aof = \underline{888} \text{ MCF/D}$$

TESTED BY Jess Goodwin

Calculated by H. E. McAnally



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