

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETIONDATE October 2, 1957

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 79	
Location 1570'N, 1008'E, Sec. 11-27-7		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 7-5/8	Set At: Feet 2986	Tubing: Diameter 1-1/4	Set At: Feet 2869
Pay Zone: From 2834	To 2870	Total Depth 5285 - c/o 5200	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		5-1/2" linear. 2931 - 5281	
Shut-In Pressure, Casing, PSIG 1005	+ 12 = PSIA 1017	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 1005	+ 12 = PSIA 1017	
Flowing Pressure: P, PSIG 125	+ 12 = PSIA 137		Working Pressure: P _w , PSIG 128	+ 12 = PSIA 140	
Temperature: T, °F 67	n = 0.85		F _{pv} (From Tables) 1.015	Gravity 0.692	

Initial SIPT (MV) - 1065 psig; final - 1065 psig 2" at 4852

CHOKE VOLUME = $Q = C \times P_c \times F_p \times F_g \times F_{pv}$

$$Q = 12.365 \times 137 \times .9933 \times .9325 \times 1.015 = 1593 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,034,289}{1,014,589} \right)^n = 1.019^{.85} \times 1593 = 1.0161 \times 1593$$

$$Aof = 1619 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____

cc: E. S. Oberly (6)

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