

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 21, 1957

Operator El Paso Natural Gas Company		Lease Lackey # 11-B	
Location 890'N, 1180'E, Sec. 30-28-9		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 7 5/8	Set At Feet 4218	Tubing Diameter 2	Set At Feet 4462
Pay Zone From 4370	To 4470	Total Depth 4560 - c/o - 4500	
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Casing Size, inches .75	Flow Constant: C 12.365	5 1/2" liner - 4185 - 4554	
Shut-In Pressure, Csg 1057	PSIG 1069	Days Shut-In 9	Shut-In Pressure, Tubing 1059
Flowing Pressure, P 332	PSIG 344		Working Pressure, Pw 713
Temperature, T 67	F .75		Fpw (From Tables) 1.042
			Gravity .72

CHOKER VOLUME $Q = C \times P \times F \times F_g \times F_{pv}$

$$Q = 12.365 \times 344 \times .9933 \times .9129 \times 1.042 = 4019 \text{ MCF/D}$$

OPEN FLOW $Asf = Q \left(\frac{P_i - P_o}{P_i - P_a} \right)^n$

$$Asf = \left(\frac{1,147,041}{621,416} \right)^{.75} \times 4019 = 1.583 \times 4019$$

$$Asf = 6362 \text{ MCF/D}$$

K. C. McBride and S. V. Roberts



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