

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 8, 1959

Operator El Paso Natural Gas Company		Lease Bolack No. 4-B	
Location 8508, 1650W; 12-27-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5-1/2	Set At: Feet 5485	Tubing: Diameter 2"	Set At: Feet 5338
Pay Zone: From 5232	To 5370	Total Depth 5477 c/o 5401	Shut In: 8/30/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant: C 12.365	5-1/2 liner 3151 - 5485	
Shut-In Pressure, Casing, PSIG 1036	PSIA 1048	Days Shut-In 10	Shut-In Pressure, Tubing, PSIG 1037
Flowing Pressure, P, PSIG 165	PSIA 177	Working Pressure, P _w , PSIG 414	PSIA 426
Temperature: T, °F 67	n .75	F _{pv} (From Tables) 1.018	Gravity .680

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

$$Q = 12.365 \times 177 \times .9933 \times .9393 \times 1.018 = 2079 \text{ MCF/D}$$

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

$$\text{Aof} = \left(\frac{1100401}{918925} \right)^n \quad 1.1974^{.75} \times 2079 = 1.1447 \times 2079$$

$$\text{Aof} = 2380 \text{ MCF/D}$$

TESTED BY D. E. Mortensen

WITNESSED BY _____

Checked By W. D. Dawson

L. D. Galloway
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