

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 16, 1958

Operator El Paso Natural Gas		Lease Barron Kidd No. 8	
Location 1580N, 1150E; 29-30-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3361	Tubing: Diameter 2	Set At: Feet 5529
Pay Zone: From 5056	To 5518	Total Depth: 5624 c/o 5578	Shut-in 4/21/58 X
Stimulation Method Sand Water Frac		Flow Through Casing Flow Through Tubing	

Choke Size, Inches .75		Choke Constant, C 12.365		5-1/2 liner 3297 - 5620	
Shut-in Pressure, Casing, PSIG 1061	- 12 = PSIA 1073	Days Shut-In 56	Shut-in Pressure, Tubing, PSIG 1060	- 12 = PSIA 1072	
Flowing Pressure: P, PSIG 365	- 12 = PSIA 377		Working Pressure: P _w , PSIG 890	- 12 = PSIA 902	
Temperature, T, °F 73			F _{pv} (From Tables) 1.035	Gravity .650	

$$\text{CHOKE VOLUME} = Q \cdot C \cdot P_r \cdot F_v \cdot F_g \cdot F_{pv}$$

$$Q = 12.365 \times 377 \times .9877 \times .9608 \times 1.035 = 4579 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1151329}{337725} \right)^n$$

$$3.4090^{.75} (4579) = 2.5040 (4579)$$

$$Aof = 11,466 \text{ MCF/D}$$

TESTED BY F. ClarkWITNESSED BY Checked By H. L. Kendrick

Lewis D. Galloway
L. D. Galloway

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