

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 25, 1963

Operator El Paso Natural Gas Company		Lease Riddle No. 2 (OWO)	
Location 1650'S, 990'E, Sec. 3, T-30-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5252	Tubing: Diameter 2.375	Set At: Feet 5071
Pay Zone: From 4590	To 5160	Total Depth: 5252	Shut In 11-17-63
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365	
Shut-in Pressure, Casing, PSIG 846	PSIA 858	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 846
Flowing Pressure: P PSIG 331	PSIA 343	Working Pressure: P _w PSIG 702	PSIA 714
Temperature: T °F 79	F _i .9822	F _{pv} (From Tables) 1.031	Gravity .650
	F _g .75		F _g .9608

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

$Q = 12.365 \times 343 \times .9822 \times .9608 \times 1.031 = 4126$ MCF/D

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

$Aof = \left(\frac{736,164}{226,368} \right)^n (3.2520)^{.75} (4126) = (2.4190)(4126)$

$Aof = 9981$ MCF/D

TESTED BY R. F. Headrick

WITNESSED BY _____

checked by T. B. Grant



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