

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE July 30, 1958

Operator El Paso Natural Gas		Lease San Juan 28-6 Unit 79 (M)	
Location 1180S, 1090W; 11-27-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 5-1/2	Set At Feet 5393	Tubing Diameter 2"	Set At Feet 5252
Pay Zone From 4654	To 5320	Total Depth 5395	Shut-in 7/20/58
Simulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 3/4"	Choke Constant, C 12.365	5-1/2 liner 3155-5393
Shut-in Pressure, Casing, PSIG 889 (PC)	PSIG 12 PSIA 901	Shut-in Pressure, Tubing, PSIG 1015 (MV)
Flowing Pressure, Casing, PSIG 302	PSIG 12 PSIA 314	Working Pressure, PSIG Calc.
Temperature, °F 68	.75	Gravity .70
		Eq. From Tables 1.036

Initial SIPT (PC) 889 psig

Final SIPC (PC) 894 psig

Packer at 3268

(Heavy Mist)

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_2 \times F_3$$

$$Q = 12.365 \times 314 \times .9924 \times .9258 \times 1.036$$

3695

MCF/D

$$\text{OPEN FLOW } Aof = Q \left(\frac{P_1^2 - P_2^2}{P_1^2 - P_2^2} \right)^n$$

$$Aof = \left(\frac{1054729}{675273} \right)^n$$

$$1.5619^{.75} (3695 = 1.3980^{.75} \times (3695))$$

$$Aof = 5166 \text{ MCF/D}$$

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WITNESSED BY

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