

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 17, 1961

Operator	El Paso Natural Gas Company		Lease	San Juan 31-6 No. 20	
Location	800'N, 1450'E, Sec. 3-30N-6W		County	Rio Arriba	State New Mexico
Formation	Mesa Verde		Pool	Blanco	
Casing Diameter	7" O.D.	Set At Feet 3593	Tubing Diameter	1-1/4"	Set At Feet 5666
Pay Zone From	5618	To 5670	Total Depth	5896 c/o 5866	Shut-In 7-6-61
Stimulation Method	Sand/Water Frac.		Flow Through Casing	X	Flow Through Tubing

Choke Size, inches	0.750	Choke Constant C	12.365	4-1/2" O.D. Liner from 3469 to 5896	
Shut-In Pressure, PSIG	1154	PSIG - 12 PSIA	1166	Shut-In Pressure, Tubing	1130
Flowing Pressure, PSIG	247	PSIG - 12 PSIA	259	Working Pressure, Pw	306
Temperature	71		.9896	Spv (From Tables)	1.020
			.750	Gravity	0.614 Fg .9918

$$\text{CHOKE VOLUME } Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = (12.365)(259)(.9896)(.9918)(1.020)$$

3206

MCF/D

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

$$Aof = \left(\frac{1,359,556}{1,265,920} \right)^n (1.0739)^{.75} (3206) = (1.0549)(3206)$$

Aof

3382

MCF/D

Checked by Jesse B. Goodwin

W. T. H. 10-1-61

Checked by T. B. Grant

Lewis D. Galloway
L. D. Galloway

