

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **August 24, 1961**

Operator El Paso Natural Gas Company	Lease San Juan 28-5 No. 51
Location 1800'N, 1150'E, Sec. 31-28N-5W	County Rio Arriba State New Mexico
Formation Mesa Verde	Prod. Blanco
Casing Diameter 7" Set At Feet 3430	Tubing Diameter 2-3/8" Set At Feet 5470
Pay Zone Interval 5026 To 5502	Total Depth 5580 c/o 5549 Shut In 8-15-61
Producing Interval Sand/Water Frac.	Flow Through Tubing X

Choke size, inches .75	Choke Constant, C 12.365	4-1/2" Liner from 3285 to 5578
Shut-in Pressure, Casing, PSIG 1070	12 PSIA Days Shut-in 9	Shut-in Pressure, Tubing, PSIG 1068
Flowing Pressure, P, PSIG 327	12 PSIA	Work-in Pressure, Pw, PSIG 773
Temperature, T, F 70	Fr .9905	Flow From Tubing, Gravity, Fg .9258
	.75	1.037

CHOKE VOLUME $Q = C \times P_r \times F_r \times F_g \times F_v$

$$Q = (12.365)(339)(.9905)(.9258)(1.037)$$

3986 MCF/D

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

$$Aof = \left(\frac{1,170,724}{554,499} \right)^n$$

$$(3986)(2.1113)^{.75} = (3986)(1.7520)$$

Aof **6983** MCF/D



DEVELOPER **D. E. Mortensen**

NOTE: Blew slight mist for 2 hrs. then clear gas.

WITNESSES

Calculated by: W. D. Dawson

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