

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 28, 1961

Operator El Paso Natural Gas Company	Lease San Juan 29-5 No. 17
Location 1040'N, 1180'E, Sec. 5-29N-5W	County Rio Arriba State New Mexico
Formation Mesa Verde	Pool Blanco
Casing Diameter 7" O.D. Set At: Feet 3663	Tubing Diameter 2-3/8" O.D. Set At: Feet 5737
Pay Zone From 5600 To 5674	Total Depth 5808 c/o 5760 Shut In 9-15-61
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", 10.5 lbs. Liner 3539 to 5807
Shut-In Pressure, Casing, PSIG 1108	PSIA 1120	Shut-In Pressure, Tubing, PSIG 1109
Flowing Pressure, P 170	PSIA 182	Working Pressure, Pw, PSIG 512
Temperature, T 67 F	Fv .9933	Fg .9682
	.75	1.017

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

$$Q = (12.365)(182)(.9932)(.9682)(1.017)$$

2201

MCF/D

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

$$Aof = \left(\frac{1,256,641}{982,065} \right)^n (1.2795)^{.75} (2201) = (1.2027)(2201)$$

Aof **2647**

MCF/D

By **D. R. Roberts**

Witnessed by

Checked by: W. D. Dawson



Lewis D. Galloway
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