

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **September 16, 1960**

Operator El Paso Natural Gas Company		Lease San Juan 29-5 Unit No. 48-15	
Location 16508, 990W; 15-29N-5W		County Rio Arriba	State New Mexico
Formation Mesaverde		Pool Blanco Mesaverde	
Casing: Diameter 7-5/8"	Set At: Feet 3927	Tubing: Diameter 2"	Set At: Feet 6050
Perforation: From 5852	To 6048	Total Depth 6149 c/o 6095	Start Date 8/28/60
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Casing Size, Inches .75		Casing Constant 12.365		5-1/2" liner from 3867 - 6138	
Shut-in Pressure, PSI 1139	PSIG 1151	PSIA 19	Shut-in Pressure, Tubing 1130	PSIG 1142	PSIA 1142
Flowing Pressure, PSI 265	PSIG 277	PSIA 277	Working Pressure, PSI 677	PSIG 689	PSIA 689
Temperature, °F 68	Grav. Sp. @ 60°F .9924	Grav. Sp. @ 60°F .75	Exp. From Casing 1.028	Grav. Sp. @ 60°F .670	Grav. Sp. @ 60°F .9463

CHOKED VOLUME: $Q = C \times P_r \times L \times F_g \times F_p$

$$Q = 12.365 \times 277 \times .9924 \times .9463 \times 1.028$$

3307

MCF/D

OPEN FLOW: $A_{of} = Q \left(\frac{P_r^2}{P_c^2 - P_r^2} \right)^{1/n}$

$$A_{of} = \left(\frac{1324801}{850080} \right)^{1/n}$$

$$1.5584^{.75} \times 3307 = 1.3945 \times 3307$$

A_{of}

4612

MCF/D

Tom Grant



L. D. Galloway
L. D. Galloway *Ray J. P. K.*

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