

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 6, 1962

Operator El Paso Natural Gas Company		Lease San Juan Unit 28-5 No. 56	
Location 800'S, 1650'W, Sec. 32-28-5		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing Diameter 4-1/2"	Set At Feet 7887	Tubing Diameter 2.375	Set At Feet 7794
Pay Zone: From 7614	To 7810	Total Depth 7894 c/o 7825	Shut In 10-18-62
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant 12.365	Shut-In Pressure, Casing, PSIG 1668	PSIA 1680	Shut-In Pressure, Tubing, PSIG 1824	PSIA 1836
Flowing Pressure, Casing, PSIG 280	PSIA 292	Working Pressure, Pw, PSIG 1612	PSIA 1624	Flowing Pressure, Tubing, PSIG 1612	PSIA 1624
Temperature, Casing, F 69	Temperature, Tubing, F 69	Gravity .9393	Specific Gravity .9393	Viscosity .680	Flowing Pressure, Pw, PSIG 1612

CHOKED VOLUME $Q = C \times R \times F_c \times F_g \times F_v$

$$Q = (12.365)(292)(.9915)(.9393)(1.031)$$

3467 MCF/D

OPEN FLOW $AOF = C \left(\frac{P_i^2 - P_w^2}{P_i^2 - P_w^2} \right)^n$

$$AOF = \left(\frac{3,370,896}{733,520} \right)^n$$

$$(4.5955)^{.75}(3467) = (3.1400)(3467)$$

AOF 10,886 MCF/D

TESTED BY **Dannie R. Roberts**

WITNESSED BY

Calculated by W. D. Dawson

Checked by T. B. Grant

NOTE: Light spray of water and distillate throughout the test.

NOTE: Tubing capacity restricted by two 3/8 inch holes above stuck pump out plug. Calculated A.O.F. is consequently abnormally high. In sizing location equipment use best estimate of absolute open flow of 5800 MCF/D.

Lewis D. Galloway
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