

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 18, 1962

Operator El Paso Natural Gas Company		Lease San Juan Unit 27-5 No. 71 (MV)	
Location 1190'N, 797'E, Sec. 28-27-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3409	Tubing: Diameter 2.0625	Set At: Feet 5454
Pay Zone: From 3172	To 3288	Total Depth: 5580 C/O 5517	Shut In 9-9-62
Stimulation Method Sand/Water Frac.		Flow Through Tubing X	

Choke Size, Inches .75	Choke Constant: C 12.365	5-1/2" Liner 3343 - 5580	
Shut-In Pressure, Casing, (PC) 965	PSIG 12 PSIA 977	Days Shut-In 9	Baker Mod. "N" Pkr. at 3499
Flowing Pressure: P 122	PSIG 12 PSIA 134	Shut-In Pressure, Tubing (MV) 1103	PSIG 12 PSIA 1115
Temperature: 63	.9971	Working Pressure: Pw (Calc.) 347	PSIG 12 PSIA
	.75	Fpv (From Tables) 1.012	Gravity .650
			Fg .9608

Initial SIPC (PC) = 965 psig

Final SIPC (PC) = 969 psig

CHOKE VOLUME $Q = C \times P_c \times F_p \times F_g \times F_{pv}$

$$Q = (12.365)(134)(.9971)(.9608)(1.012)$$

1606

MCF D

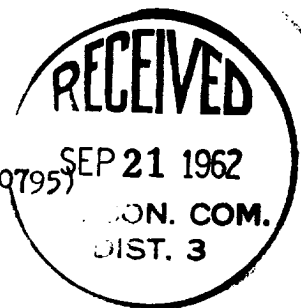
$$\text{OPEN FLOW } A_{of} = Q \left(\frac{P_c^2}{P_w^2} \right)^n$$

$$A_{of} = \left(\frac{1,243,225}{1,122,816} \right)^n$$

$$(1606)(1.1072)^{.75} = (1606)(1.0795)$$

$$A_{of} = 1734$$

MCF D



NOTE: After 10 min. started blowing fair mist of liquid. NOTE: The PC tubing pressures could not be measured due to being bull plugged off.

TESTED BY D. E. Mortensen

WITNESSED BY

Calculated by W. D. Dawson

Checked by T. B. Grant

Lewis D. Galloway
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