

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 27, 1960

Operator El Paso Natural Gas Company	Lease San Juan 28-7 No. 45 (PC)
Location 1700'S, 1050'W, 27-28N-7W	County State Rio Arriba New Mexico
Formation Pictured Cliffs	Pool South Blanco P.C. (Ext.)
Casing: Diameter Set At: Feet 7-5/8" 2810	Tubing: Diameter Set At: Feet 1-1/4" 2723
Pay Zone From To 2706 2740	Total Depth: Shut In 5100 8-15-60
Stimulation Method Sand/Water Frac.	Flow Through Casing Flow Through Tubing X

Choke Size, Inches	Choke Constant: C	5-1/2" Liner from 2751 to 5095	
Shut-In Pressure, Casing, (PC) 987	PSIG + 12 = PSIA 999	Days Shut-In 73	Shut-In Pressure, Tubing (PC) 988
Flowing Pressure: P 85	PSIG + 12 = PSIA 97		Working Pressure: Pw 87
Temperature 59 F			Gravity .9258
	Ft 1.0010		Fpv (From Tables) 1.011

Initial SIPT (MV) = 918 psig

Final SIPC (MV) = 918 psig

CHOKE VOLUME = Q C x P_i x F_i x F_g x F_{pv}

Q = 12.365 X 97 X 1.0010 X .9258 X 1.011 = 1124 MCF/D

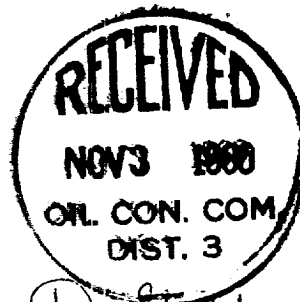
OPEN FLOW Aof = Q $\left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$

Aof = $\left(\frac{1,000,000}{990,199} \right)^n = (1.0098)^{.85} (1124) = (1.0083)(1124)$

Aof = 1133 MCF/D

TESTED BY Tom Grant

WITNESSED BY
Checked by W. D. Dawson



Lewis D. Galloway
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