

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #87	
Location 1820/N, 1820/E, Sec. 28, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4106'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3962'	To 4026'	Total Depth: PBT 4106' 4095'	Shut In 6-18-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1038	+ 12 = PSIA 1050	Days Shut-In 10	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 285	+ 12 = PSIA 297		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 395	
Temperature: T = 73 °F	n = Ft = .9877		F _{pv} (From Tables) 1.0310	Gravity .680	F _g = .9393

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

Q = 12.365(297)(.9877)(.9393)(1.0310) = 3513 MCF/D

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

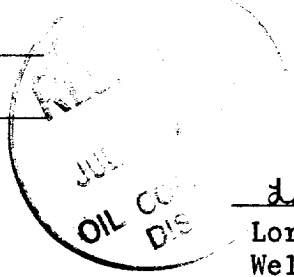
Aof = Q $\left(\frac{1102500}{946475} \right)^n = 3513(1.1648)^{.85} = 3513(1.1385)$

Aof = 3999 MCF/D

Note: The well blew a light spray of water and distillate throughout the test.

TESTED BY R. Hardy

WITNESSED BY



Loren W. Fothergill
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Well Test Engineer