

Operator El Paso Natural Gas Company		Lease Hardie "A" No. 3	
Location 790 N, 990 W, S-26-T29N-R8W		County San Juan	State New Mexico
Formation Undesignated		Pool Pictured Cliffs	
Casing: Diameter 2.875	Set At: Feet 3135	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone: From 3054	To 3070	Total Depth: 3135	Shut In 8-06-69
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, PSIG 981	+ 12 = PSIA 993	Days Shut-In 15	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ----	
Flowing Pressure: P PSIG 147	+ 12 = PSIA 159		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 201	
Temperature: T = 63 °F	n = .85		F _{pv} (From Tables) 1.017	Gravity .700	F _g = .9258

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

Q = 12.3650 X 159 X .9971 X .9258 X 1.017 = 1846 MCF/D

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

Aof = $\left(\frac{986049}{945648} \right)^n = (1.0427)^{.85} (1846) = (1.0362)(1846)$

Note: The well produced dry gas throughout test.

Aof = 1913 MCF/D



TESTED BY CRW
Calculated
WITNESSED BY HEM

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