

Operator El Paso Natural Gas Company		Lease Hardie No. 7	
Location 900's, 1180'W, Section 23, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3144	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3016	To 3092	Total Depth: 3144	Shut In 5-8-73
Stimulation Method SWF (GEL)		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, 889	PSIG	+ 12 = PSIA 901	Days Shut-In 7	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA
Flowing Pressure: P 86	PSIG	+ 12 = PSIA 98		Working Pressure: P _w Calculated	PSIG + 12 = PSIA 123
Temperature: T = 65 °F	F _t = .9952	n = .85		F _p v (From Tables) 1.007	Gravity .645 F _g = .9645

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_pv

Q = (12.365) (98) (.9952) (.9645) (1.007) = 1171 MCF/D

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

NOTE: Blew clear gas for entire test.

Aof = Q $\left(\frac{811801}{796672} \right)^n = 1171(1.0190)^{.85} = 1171 (1.0161)$

Aof = 1191 MCF/D



TESTED BY Jesse B. Goodwin

WITNESSED BY _____

William D. Welch
William D. Welch, Well Test Engineer