

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 21, 1977

Operator El Paso Natural Gas Company		Lease Vanderwart A #5-A	
Location SE 14-29-08		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco PC Extension	
Casing: Diameter 4 1/2	Set At: Feet 6213'	Tubing: Diameter 1 1/4	Set At: Feet 3665'
Pay Zone: From 3590	To 3678	Total Depth: 6213	Shut In 6-7-77
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12,3650			
Shut-In Pressure, Casing, PSIG 810	+ 12 = PSIA 822	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 810	+ 12 = PSIA 822	
Flowing Pressure: P PSIG 193	+ 12 = PSIA 205		Working Pressure: P _w PSIG 201	+ 12 = PSIA 213	
Temperature: T = 61 °F	F _t = .9990	n = .85	F _p v (From Tables) 1.020	Gravity .650	F _g = .9608

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

Q = 12.365(205) (.9990) (.9608) (1.020) = 2482 MCF/D

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

Aof = Q $\left(\frac{675684}{630315} \right)^n = 2482(1.0720)^{.85} = 2482(1.0609)$

Aof = 2633 MCF/D

Note: Well blew dry gas throughout test. Vented 376 MCF of gas to atmosphere.

TESTED BY Easley- Wagoner

WITNESSED BY _____



C.R. Wagoner
Well Test Engineer