

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 18, 1977

Operator El Paso Natural Gas Company		Lease Vandewart A #5-A	
Location SE 14-29-08		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4 1/2	Set At: Feet 6213'	Tubing: Diameter 2 3/8	Set At: Feet 6165'
Pay Zone: From 5260	To 6176	Total Depth: 6213	Shut In 10-11-77
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG	+ 12 = PSIA	Days Shut-In 7	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
			738	750	
Flowing Pressure: P PSIG	+ 12 = PSIA	Working Pressure: P _w PSIG	+ 12 = PSIA		
225	237	Calc.	493		
Temperature: T = 58 °F	n =	F _{pv} (From Tables)	Gravity		
F _t = 1.002	.75	1.027	.670	F _g = .9463	

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

Q = 12.365(237)(1.002)(.9463)(1.027) = 2854 MCF/D

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

Aof = Q $\left(\frac{562500}{319451} \right)^n = 2854(1.7608)^{.75} = 2854(1.5286)$

Aof = 4363 MCF/D

Note: Well blew dry gas. Well vented 386 MCF of gas to the atmosphere during test.

TESTED BY N. Waggoner

WITNESSED BY _____

C.R. Waggoner
Well Test Engineer

