

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 24, 1977

Operator El Paso Nat ral Gas Company		Lease Gartner #4-A	
Location SE 33-30-08		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco Ext.	
Casing: Diameter 4 1/2"	Set At: Feet 5743'	Tubing: Diameter 1 1/4"	Set At: Feet 5184'
Pay Zone: From 3114	To 3176	Total Depth: 5743	Shut In 10-10-77
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 881	+ 12 = PSIA 893	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 881	+ 12 = PSIA 893	
Flowing Pressure: P PSIG 128	+ 12 = PSIA 140		Working Pressure: P _w PSIG 135	+ 12 = PSIA 145	
Temperature: T = 58 °F	F _t = 1.002	n = .85	F _{pv} (From Tables) 1.012	Gravity .650	F _g = .9608

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365(140)(1.002)(.9608)(1.012) = 1687 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{797449}{776424} \right)^n = 1.687(1.0271)^{.85} = 1687(1.0230)$$

$$Aof = 1726 \text{ MCF/D}$$

Note: Well blew clear dry gas. Well vented 291 MCF to the atmosphere during test.

TESTED BY R. Headrick

WITNESSED BY _____

C.R. Hagan
Well Test Engineer

