

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 8, 1978

Operator El Paso Natural Gas Company		Lease Atlantic C #1-A	
Location NW 35-31-10		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undes	
Casing: Diameter 4.500	Set At: Feet 5778'	Tubing: Diameter 1 1/4	Set At: Feet 3258'
Pay Zone: From 3104	To 3244	Total Depth: 5778	Shut In 4-22-78
Stimulation Method Sandwater Frac		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 651	+ 12 = PSIA 663	Days Shut-In 16	Shut-In Pressure, Tubing PSIG 651	+ 12 = PSIA 663	
Flowing Pressure: P PSIG 151	+ 12 = PSIA 163		Working Pressure: P _w PSIG 156	+ 12 = PSIA 168	
Temperature: T = 60 °F	F _t = 1.000	n = .85	F _{pv} (From Tables) 1.016	Gravity .670	F _g = .9463

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

$$Q = 12.365(163)(1.000)(.9463)(1.016) = \underline{\hspace{2cm}} 1938 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{439569}{411345} \right)^n = (1.0686)^{.85} = (1938)(1.0580)(1938)$$

$$Aof = \underline{\hspace{2cm}} 2050 \text{ MCF/D}$$

Note: Well blew dry gas throughout test.
Well vented 198 MCF to the atmosphere
during test.

TESTED BY D. Wright

WITNESSED BY _____

C. R. Wagner
Well Test Engineer