

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 10, 1979

Operator El Paso Natural Gas Company		Lease Case #1-A (PC)	
Location NW 5-31-11		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5968'	Tubing: Diameter 1 1/4	Set At: Feet 3296'
Pay Zone: From 3246'	To 3266'	Total Depth: 5968'	Shut In 12-7-78
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 958	+ 12 = PSIA 970	Days Shut-In 34	Shut-In Pressure, Tubing PSIG 958	+ 12 = PSIA 970	
Flowing Pressure: P PSIG 241	+ 12 = PSIA 253		Working Pressure: P _w PSIG 252	+ 12 = PSIA 264	
Temperature: T = 58 °F	n = .85		F _{pv} (From Tables) 1.028	Gravity .670	F _g = .9463

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

$$Q = 12.365(253)(1.0020)(.9463)(1.028) = \underline{\hspace{2cm}} 3049 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{940900}{871204} \right)^n = (1.0800)^{.85} = (3049) = (1.0677)(3049)$$

$$Aof = \underline{\hspace{2cm}} 3255 \text{ MCF/D}$$

Note: Well blew dry gas throughout test and vented 340 MCF to the atmosphere.

TESTED BY C. Rhames

WITNESSED BY _____

C.R. Wagner
Well Test Engineer

