

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 3, 1975

Operator El Paso Natural Gas Company		Lease Howell E #1-A	
Location 990' /N, 990' /W, Sec. 29, T30N, R8W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5175'	Tubing: Diameter 2.375	Set At: Feet 5119'
Pay Zone: From 4167	To 5138'	Total Depth: PBTD 5175' 5158'	Shut In 11-19-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches		Choke Constant: C			
Shut-In Pressure, Casing,	PSIG	+ 12 = PSIA	Days Shut-In	Shut-In Pressure, Tubing	PSIG
813		825	14	679	
Flowing Pressure: P	PSIG	+ 12 = PSIA		Working Pressure: P _w	PSIG
					+ 12 = PSIA
Temperature:		n =		F _{pv} (From Tables)	Gravity
T = °F	F _t =				F _g =

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

Q = Pitot tube gauge after frac 11-19-75 = 2617 MCF/D

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

$$Aof = \left(\frac{\quad}{\quad} \right)^n =$$

Aof = _____ MCF/D

TESTED BY _____

WITNESSED BY _____

Well Test Engineer