

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 7, 1976

Operator El Paso Natural Gas Company		Lease Munoz #1-A	
Location NW 11-30N-8W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5713'	Tubing: Diameter 2 3/8	Set At: Feet 5667'
Pay Zone: From 4955'	To 5669	Total Depth: PBTD 5713' 5696	Shut In 6-30-76
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches		Choke Constant: C			
Shut-In Pressure, Casing, PSIG 579	+ 12 = PSIA 591	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 354	+ 12 = PSIA 366	
Flowing Pressure: P PSIG	+ 12 = PSIA		Working Pressure: P _w PSIG	+ 12 = PSIA	
Temperature: T = °F Ft =	n =		Fpv (From Tables)	Gravity Fg =	

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

Q =

= _____ MCF/D

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

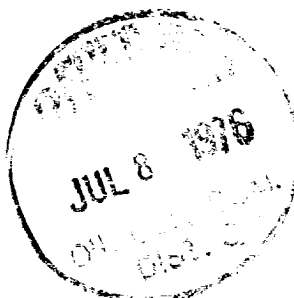
$$Aof = \left(\frac{\quad}{\quad} \right)^n =$$

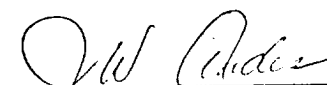
Aof = _____ MCF/D

After frac gauge = 3565 MCF/D. Used to size equipment only.

TESTED BY Norton

WITNESSED BY _____




 Well Test Engineer