

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE April 1, 1976

Operator El Paso Natural Gas Company		Lease Howell D #3-A	
Location SE 31-31N-8W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7.000 Liner 4.500	Set At: Feet 3410 3244-5795	Tubing: Diameter 2.375	Set At: Feet 5735'
Pay Zone: From 4948	To 5736	Total Depth: 5800	Shut In 3-22-76
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing

Choke Size, Inches		Choke Constant: C			
Shut-In Pressure, Casing, 450	PSIG	+ 12 = PSIA 462	Days Shut-In 10	Shut-In Pressure, Tubing 326	PSIG + 12 = PSIA 338
Flowing Pressure: P	PSIG	+ 12 = PSIA		Working Pressure: P <sub>w</sub>	PSIG + 12 = PSIA
Temperature: T = °F Ft =		n =		F <sub>pv</sub> (From Tables)	Gravity F <sub>g</sub> =

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

Q =

= \_\_\_\_\_ MCF/D

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

After frac gauge (used for sizing equipment only) = 1841 MCF/D.

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

Aof = \_\_\_\_\_ MCF/D

TESTED BY Jess Goodwin

WITNESSED BY \_\_\_\_\_

*[Signature]*  
Well Test Engineer

