

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 30, 1979

Operator El Paso Natural Gas Company		Lease Morris A #3 (OWWO)	
Location NW 28-30-11		County San Juan	State New Mexico
Formation Fruitland		Pool Undesignated	
Casing: Diameter 5.500	Set At: Feet 2292	Tubing: Diameter 1 1/4	Set At: Feet 2019
Pay Zone: From 2000	To 2040	Total Depth: 2292	Shut In 5-21-79
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.750		Choke Constant: C 12.3650			
Shut-In Pressure, Casing, PSIG 572	+ 12 = PSIA 584	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 570	+ 12 = PSIA 582	
Flowing Pressure: P PSIG 11	+ 12 = PSIA 23		Working Pressure: P _w PSIG 128	+ 12 = PSIA 140	
Temperature: T = 72 °F	F _t = 0.9887	n = .85	F _p v (From Tables) 1.004	Gravity .650	F _g = 0.9608

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

$$Q = 12.3650 (23) (0.9887) (0.9608) (1.004) = \underline{271} \text{ MCF/D}$$

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

$$Aof = \left(\frac{341056}{321456} \right)^Q = (1.004)^{.85} (271) = 1.0528 (271)$$

NOTE: The Well Blew of Heavy Mist of Water Throughout The Test. The Well Used 56 MCF During Test.

$$Aof = \underline{285} \text{ MCF/D}$$

TESTED BY Bill Albert

WITNESSED BY _____

C. R. Wagner
Well Test Engineer

