

OPEN FLOW TEST DATA

DATE May 27, 1977

Operator El Paso Natural Gas Company		Lease Pritchard #3-A	
Location SE 34-31-09		County San Juan	State New Mexico
Formation Fruitland		Pool Undesignated	
Casing: Diameter 4 1/2	Set At: Feet 5587'	Tubing: Diameter 1 1/4	Set At: Feet 2821'
Pay Zone: From 2758	To 2826	Total Depth: 5587'	Shut In 5-12-77
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.3650			
Shut-In Pressure, Casing, PSIG 1400	+ 12 = PSIA 1412	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 611	+ 12 = PSIA 623	
Flowing Pressure: P PSIG 45	+ 12 = PSIA 57		Working Pressure: P _w PSIG 243	+ 12 = PSIA 255	
Temperature: T = 57 °F	n = .85		F _{pv} (From Tables) 1.004	Gravity .650	F _g = .9608

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

$$Q = 12.365(57)(1.0029)(.9608)(1.004) = \underline{\quad 682 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1993744}{1928719} \right)^n = (682)(1.0337)^{.85} = (682)(1.0286)$$

$$Aof = \underline{\quad 702 \quad} \text{ MCF/D}$$

Note: Well blew dry gas throughout test.
Well vented 85 MCF of gas to atmosphere during test.

TESTED BY HeadrickWITNESSED BY Wagner

H. E. McNally
Well Test Engineer