

# EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE 6-30-75

Operator El Paso Natural Gas Company		Lease Nye #14 (CH)	
Location 1650/S, 1560/E, Sec. 8, T29N, R10W		County San Juan	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 3349'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3015	To 3020'	Total Depth: PBD 3349' 3339'	Shut In 6-10-75
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1090	+ 12 = PSIA 1102	Days Shut-In 21	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 2	+ 12 = PSIA 14		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 18	
Temperature: T = 59 °F	n = Ft = 1.001		F <sub>pv</sub> (From Tables) 1.002	Gravity .650	F <sub>g</sub> = .9608

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

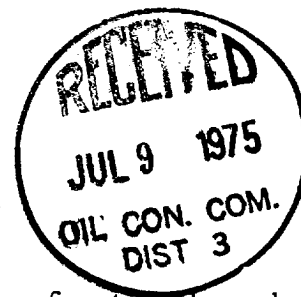
$$Q = 12.365 \times 14 \times 1.001 \times .9608 \times 1.002 = 167 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1214404}{1214080} \right)^n = 167(1.0003)^{.75} = 167(1.0002)$$

$$Aof = 167 \text{ MCF/D}$$

Note: Well blew heavy fog of water throughout test. Vented gas to atmosphere- 21 MCF.



TESTED BY Goodwin

WITNESSED BY C. R. Wagner

*C. R. Wagner*  
Well Test Engineer