

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE October 19, 1973

Operator El Paso Natural Gas Company		Lease Klein #21 (CH)	
Location 1470/N, 1600/W, Sec. 34, T26N, R6W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 3605'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3458	To 3572'	Total Depth: 3605	Shut In 10-5-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 837	+ 12 = PSIA 849	Days Shut-In 14	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 13	+ 12 = PSIA 25		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 32	
Temperature: T = 66°F	n = Ft = .9943		Fpv (From Tables) 1.004	Gravity .655	Fg = .9571

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

$$Q = (12.365) (25) (.9943) (.9571) (1.004) = \underline{\hspace{2cm}} 295 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{720801}{719777} \right)^n = 295 (1.0014)^{.75} = 295 (1.001)$$

$$Aof = \underline{\hspace{2cm}} 296 \text{ MCF/D}$$

Note: Blew clear gas and frac sand.

TESTED BY Jesse B. Goodwin

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

*William D. Welch*  
\_\_\_\_\_  
William D. Welch  
Well Test Engineer