

OCC /

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 1/4/73

Operator EL PASO NATURAL GAS COMPANY		Lease Canyon Largo Unit #179	
Location 1650/S, 990/W, Sec. 13, T25N, R7W		County Rio Arriba	State NM
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 2844	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2675	To 2761	Total Depth: 2844	Shut In 12/19/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 494	+ 12 = PSIA 506	Days Shut-In 16	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 171	+ 12 = PSIA 183	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 227		
Temperature: T = 58 °F      Ft = 1.002	n = .85	Fpv (From Tables) 1.022	Gravity .700	Fg = .9258	

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

$$Q = (12.365)(183)(1.002)(.9258)(1.022) = \underline{2145} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{256036}{204507} \right)^n = 2145(1.2520)^{.85} = 2145 (1.2105)$$

$$Aof = \underline{2597} \text{ MCF/D}$$

NOTE: The well produced dry gas.

TESTED BY W. D. Welch

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

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

