

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE December 11, 1974

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #261	
Location 1715/S, 1115/W, Sec. 21, T24N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 2519'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2436'	To 2456'	Total Depth: PBTD 2519' 2508'	Shut In 11-15-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 687	+ 12 = PSIA 699	Days Shut-In 26	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 25	+ 12 = PSIA 37	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 45		
Temperature: T = 50 °F	n = F <sub>t</sub> = 1.010	F <sub>pv</sub> (From Tables) 1.004	Gravity .700	F <sub>g</sub> = 0.9258	

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

$$Q = 12.365(37)(1.010)(0.9258)(1.004) = \underline{\quad 430 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{488601}{486576} \right)^n = 430(1.0042)^{.85} = 430(1.0035)$$

$$Aof = \underline{\quad 431 \quad} \text{ MCF/D}$$

Note: The well unloaded a light fog of water and distillate throughout test.

TESTED BY D. Norton

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

*Loren W. Fothergill*  
Loren W. Fothergill  
Well Test Engineer

