

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE August 21, 1969

Operator El Paso Natural Gas Company		Lease Canyon Largo No. 146	
Location 930S, 845W, S9-T25N-R7W		County Rio Arriba	State New Mexico
Formation Ballard		Pool Pictured Cliffs	
Casing: Diameter 2.875	Set At: Feet 2281	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone: From 2200	To 2278	Total Depth: 2281	Shut In 7-30-69
Stimulation Method Sand Water 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 588	+ 12 = PSIA 600	Days Shut-In 22	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ---	
Flowing Pressure: P <sub>o</sub> PSIG 15	+ 12 = PSIA 27		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 32	
Temperature: T = 59 °F	n = Ft = 1.0010		Fpv (From Tables) 1.004	Gravity .650	Fg = .9608

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

$$Q = (12.365)(27)(1.0010)(.9608)(1.004) = \underline{322} \text{ MCF/D}$$

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

$$Aof = \left( \frac{360000}{358976} \right)^n = (322)(1.0028)^{.85} = (322)(1.0024)$$

$$Aof = \underline{323} \text{ MCF/D}$$

Note: Intermittent surges of slightly salty water throughout test. Just enough gas to unload the water.

TESTED BY JBG

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

*H. L. Kendrick*  
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