

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE May 13, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #179	
Location 1075/S, 1135/E, Sec. 7, T28N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 3532'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3414'	To 3434'	Total Depth: PBD 3532' 3521'	Shut In 4-16-74
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 1052	+ 12 = PSIA 1064	Days Shut-In 27	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 216	+ 12 = PSIA 228	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 294		
Temperature: T = 66 °F F <sub>t</sub> = .9943	n = .85	F <sub>pv</sub> (From Tables) 1.018	Gravity .620	F <sub>g</sub> = .9837	

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

$$Q = 12.365(228)(.9837)(.9943)(1.0180) = \underline{2807} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1132096}{1045660} \right)^n = 2807(1.0827)^{.85} = 2807(1.0699)$$

$$Aof = \underline{3003} \text{ MCF/D}$$

Note: The well produced a dry flow.

TESTED BY C. R. Wagner

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

Loren W. Fothergill  
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Well Test Engineer

