

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 8, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #86	
Location 2210/S, 2340/W, Sec. 27, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4118'	Tubing: Diameter No tubing	Set At: Feet --
Pcy Zone: From 4008	To 4057	Total Depth: PBDT 4118 4107	Shut In 7-30-74
Stimulation Method Sand-Foam 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 1032	+ 12 = PSIA 1044	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 261	+ 12 = PSIA 273	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 365		
Temperature: T = 64 °F	n = .85	Fpv (From Tables) 1.030	Gravity .680	Fg = 0.9393	

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

$$Q = (12.365)(273)(0.9962)(0.9393)(1.030) = \underline{\quad 3253 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1089936}{956711} \right)^n = (3253)(1.1393)^{.85} = (3253)(1.122) = \underline{\quad 3634 \quad} \text{ MCF/D}$$

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Note: The well produced a dry gas flow.

TESTED BY C. R. Wagner

WITNESSED BY

*Loren W. Fothergill*  
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Well Test Engineer