

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE May 22, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit #187	
Location 1750/N, 1620/W, Sec. 19, T27N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3238'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3108'	To 3160'	Total Depth: PBD 3238' 3228'	Shut In 5-13-74
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 747	+ 12 = PSIA 759	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 75	+ 12 = PSIA 87		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 110	
Temperature: T = 60 °F      F <sub>t</sub> = 1.0000	n = .85		F <sub>pv</sub> (From Tables) 1.009	Gravity .655	F <sub>g</sub> = .9571

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

$$Q = 12.365(87)(1.0000)(.9571)(1.0090) = \underline{\quad 1039 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{576081}{563981} \right)^n = 1039(1.0215)^{.85} = 1039(1.0182)$$

$$Aof = \underline{\quad 1058 \quad} \text{ MCF/D}$$

Note: The well produced a dry flow.

TESTED BY C. Rhames

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

*Loren W. Fothergill*  
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Well Test Engineer

