

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE April 17, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #177 (PC)	
Location 1460/S, 870/E, Sec. 30, T27N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3009'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2860	To 2916	Total Depth: PBTD 4039' 2998'	Shut In 4-5-74
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 675	+ 12 = PSIA 687	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 223	+ 12 = PSIA 235		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 295	
Temperature: T = 59 °F	n = F = 1.0010		F _p (From Tables) 1.023	Gravity .640	F _g = .9682

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

$$Q = 12.365(235)(1.0010)(.9682)(1.023) = \underline{2881} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{471969}{384944} \right)^n = 2881(1.2261)^{.85} = 2881(1.1892)$$

$$Aof = \underline{3426} \text{ MCF/D}$$

Note: The well blew a dry gas throughout the test.

TESTED BY Norton

WITNESSED BY _____



Loren W. Fothergill
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Well Test Engineer