

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 6, 1975

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #201 (PC)	
Location 1190/S, 1190/E, Sec 7, T 27 N, R 7 W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So Blanco	
Casing: Diameter 2.875	Set At: Feet 3204	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone: From 3095	To 3155	Total Depth: PBT 3204 3193	Shut In 7-22-75
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.75		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 927	+ 12 = PSIA 939	Days Shut-In 15	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ---	
Flowing Pressure: P PSIG 64	+ 12 = PSIA 76		Working Pressure: Pw Calculated	+ 12 = PSIA 96	
Temperature: T = 54 °F	Ft = .9962	n = .85	Fpv (From Tables) 1.009	Gravity .671	Fg = .9456

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

$$Q = (12.365)(76)(.9962)(.9456)(1.009) = 893 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{881721}{872505} \right)^n = (893)(1.0106)^{.85} = (893)(1.0090)$$

$$Aof = 901 \text{ MCF/D}$$

Note: Well blew 161.81 MCF dry gas to atmosphere during test.

TESTED BY Rhames

WITNESSED BY

*Charles W. Davis*  
Well Test Engineer