

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 #202 (PC)	
Location 1675/S, 1080/E, SEc 8, 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 3475'	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone: From 3362	To 3384	Total Depth: PBT 3475 3465	Shut In 7-22-75
Stimulation Method Sand Water 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 724	+ 12 = PSIA 736	Days Shut-In 15	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ---	
Flowing Pressure: P PSIG 76	+ 12 = PSIA 88		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 113	
Temperature: T = 62 °F	F _t = .9981	n = .85	F _{pv} (From Tables) 1.009	Gravity .660	F _g = .9535

CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_{pv}

$$Q = (12.365)(88)(.9981)(.9535)(1.009) = 1045 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{541696}{528927} \right)^n = (1045)(1.0241)^{.85} = (1045)(1.0204) = 1066 \text{ MCF/D}$$

Aof = 1066 MCF/D

Note: Well blew 165.87 MCF dry gas to atmosphere during test.

TESTED BY Rhames

WITNESSED BY

Charles W. Davis
Well Test Engineer