

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 5, 1975

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #213	
Location 1760'S, 1090'E, Sec. 29, T-27-N, R-7-W		County Rio Arriba	State New Mexico
Formation Chacra Extension		Pool Largo	
Casing: Diameter 2.875	Set At: Feet 4104'	Tubing: Diameter no tubing	Set At: Feet ---
Pay Zone: From 3916'	To 4052'	Total Depth: 4104' PBTD 4094'	Shut In 7-23-75
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 1049	+ 12 = PSIA 1061	Days Shut-In 13	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA ---	
Flowing Pressure: P PSIG 98	+ 12 = PSIA 110		Working Pressure: P _w PSIG calculated	+ 12 = PSIA 145	
Temperature: T = 62 °F	n = 0.75		Fpv (From Tables) 1.009	Gravity .655	Fg = .9571

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

$$Q = (12.365)(110)(.9981)(.9571)(1.009) = \underline{1311} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1125721}{1104696} \right)^n = (1311)(1.0190)^{.75} = (1311)(1.0142)$$

$$Aof = \underline{1330} \text{ MCF/D}$$

Note: Well blew light fog of water throughout test. 185.71 MCF of gas was vented to the atmosphere during the test.

TESTED BY Johnson

WITNESSED BY _____

Charles W. Davis
Well Test Engineer

