

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 #240	
Location 900'S, 800'W, Sec. 20, T-27-N, R-7-W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Largo	
Casing: Diameter 2.875	Set At: Feet 4048'	Tubing: Diameter no tubing	Set At: Feet ---
Pay Zone: From 3816'	To 3978'	Total Depth: 4048' PBTD 4039'	Shut In 7-23-75
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 1053	+ 12 = PSIA 1065	Days Shut-In 13	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA ---
Flowing Pressure: P PSIG 87	+ 12 = PSIA 99		Working Pressure: Pw PSIG calculated	+ 12 = PSIA 130
Temperature: T = 62 °F	Ft = .9981	n = 0.75	Fpv (From Tables) 1.009	Gravity .655 Fg = .9571

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

$$Q = (12.365)(99)(.9981)(.9571)(1.009) = \underline{1180} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1134225}{1117325} \right)^n = (1180)(1.0151)^{.75} = (1180)(1.0113)$$

$$Aof = \underline{1193} \text{ MCF/D}$$

Note: Well blew light fog of water throughout test. 158.57 MCF of gas was vented to the atmosphere during the test.

TESTED BY Johnson

WITNESSED BY _____

Charles W. Deane
Well Test Engineer