

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 8, 1975

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #272	
Location 1580/S, 990/W, Sec 33, T 25 N, R 6 W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 2300	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone: From 2184	To 2260	Total Depth: 2300	PBTD 2290 Shut In 7-29-75
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, 568	PSIG	+ 12 = PSIA 580	Days Shut-In 10	Shut-In Pressure, Tubing No tubing	PSIG + 12 = PSIA ---
Flowing Pressure: P 176	PSIG	+ 12 = PSIA 188		Working Pressure: P _w Calculated	PSIG + 12 = PSIA 226
Temperature: T = 62 °F	F _t = .9981	n = .85		F _{pv} (From Tables) 1.021	Gravity .700 F _g = .9258

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

$$Q = 12.365 (188) (.9981) (.9258) (1.021) = \underline{2193} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{336400}{285324} \right)^n = 2193(1.1790)^{.85} = 2193(1.150)$$

$$Aof = \underline{2522} \text{ MCF/D}$$

Note: The well produced dry gas. During the test 288.74 MCF of gas was vented to atmosphere.

TESTED BY Johnson

WITNESSED BY _____

Charles W. Dein
Well Test Engineer