

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 29, 1973

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #210	
Location 1500/N, 930/E, Sec. 30, T25N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 2778'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2594	To 2698	Total Depth: 2778	Shut In 10-20-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 244	+ 12 = PSIA 256	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 83	+ 12 = PSIA 95		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 117	
Temperature: T = 58 °F	n = 1.0019		F _{pv} (From Tables) 1.011	Gravity .700	F _g = .9258

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

$$Q = (12.365) (95) (1.0019) (.9258) (1.011) = 1102 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{65536}{51847} \right)^n = (1102) (1.2640)^{.85} = (1102) (1.2204)$$

$$Aof = 1345 \text{ MCF/D}$$

Note: The well produced a light mist of water throughout the test.

TESTED BY C. Rhames

WITNESSED BY _____

H. E. McAnally
Well Test Engineer

