

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 15, 1973

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #199	
Location 1500/N, 1840/E, Sec. 35, T-25N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 2657'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2532	To 2568'	Total Depth: 2657	Shut In 9-27-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 338	+ 12 = PSIA 350	Days Shut-In 13	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
Flowing Pressure: P PSIG 177	+ 12 = PSIA 189	Working Pressure: P _w PSIG	+ 12 = PSIA		
Temperature: T = 63°F	n =	F _{pv} (From Tables) 1.021	Gravity .700	F _g = .9258	
F _t = .9971	.85				

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

$$Q = (12.365)(189)(.9971)(.9258)(1.021) = \underline{\quad 2203 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{122500}{68676} \right)^n = 2203 (1.7837)^{.85} = 2203 (1.6354)$$

$$Aof = \underline{\quad 3602 \quad} \text{ MCF/D}$$

Note: Well blew dry gas.

TESTED BY Hardy

WITNESSED BY _____

William D. Welch
 William D. Welch
 Well Test Engineer