

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 16, 1973

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #197	
Location 1620/N, 1560/E, Sec. 34, T25N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 2705'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2548	To 2622	Total Depth: 2705	Shut In 10-2-73
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 284	+ 12 = PSIA 296	Days Shut-In 14	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 92	+ 12 = PSIA 104		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 127	
Temperature: T = 62°F	Ft = .9981	n = .85	F _{pv} (From Tables) 1.009	Gravity .700	F _g = .9258

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

$$Q = (12.365) (104) (.9981) (.9258) (1.009) = \underline{1199} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{87616}{71487} \right)^n = 1199 (1.2256)^{.85} = 1199 (1.1888)$$

$$Aof = \underline{1425} \text{ MCF/D}$$

Note: Dry Gas.

TESTED BY Hardy

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer