

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

Operator El Paso Natural Gas Company		Lease Hughes No. 22	
Location 1680'S, 800'E, Section 29, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3119	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2970	To 3074	Total Depth: 3119	Shut In 5-17-73
Stimulation Method SWP		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 972	+ 12 = PSIA 984	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA
Flowing Pressure: P PSIG 40	+ 12 = PSIA 52		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 65
Temperature: T = 58 °F	n = 1.002		F _{pv} (From Tables) 1.007	Gravity .645 F _g = .9645

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

$$Q = (12.365) (52) (1.002) (.9645) (1.007) = \underline{626} \text{ MCF/D}$$

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

NOTE: The well blew dry gas.

$$Aof = Q \left(\frac{968256}{964031} \right)^{1.002} = (626) (1.004)^{.85} = (626) (1.004)$$

$$Aof = \underline{629} \text{ MCF/D}$$

TESTED BY Jesse Goodwin

WITNESSED BY _____

William D Welch
William D. Welch, Well Test Engineer