

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE May 29, 1973

Operator El Paso Natural Gas Company		Lease Hughes No. 17	
Location 1640'N, 990'E, Section 19, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3174	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3088	To 3108	Total Depth: 3174	Shut In 5-18-73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 918	+ 12 = PSIA 930	Days Shut-In 11	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 82	+ 12 = PSIA 94	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 119		
Temperature: T = 62 °F	F _t = .9981	n = .85	F _{pv} (From Tables) 1.007	Gravity .645	F _g = .9645

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

$$Q = (12.365) (94) (9981) (.9645) (1.007) = \underline{1127} \text{ MCF/D}$$

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

NOTE: The well blew dry gas.

$$Aof = Q \left(\frac{864900}{850739} \right)^n = (1127) (1.017)^{.85} = (1127) (1.014)$$

$$Aof = \underline{1144} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____



William D. Welch
 William D. Welch, Well Test Engineer