

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 30, 1973

Operator El Paso Natural Gas Company		Lease Tapp No. 10	
Location 1500'N, 1840'E, Section 17, T28N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2348	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2226	To 2306	Total Depth: 2348	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, 852	PSIG	+ 12 = PSIA 864	Days Shut-In 12	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA
Flowing Pressure: P 123	PSIG	+ 12 = PSIA 135		Working Pressure: P _w Calculated	PSIG + 12 = PSIA 162
Temperature: T = 62 °F		n = F _t = .9981		F _{pv} (From Tables) 1.012	Gravity .645 F _g = .9645

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

$$Q = 12.365 \times 135 \times .9981 \times .9645 \times 1.012 = 1626 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{746496}{720252} \right)^n = (1626)(1.036)^{.85} = (1626)(1.031)$$

$$Aof = 1678 \text{ MCF/D}$$

TESTED BY Tommy D. Norton

WITNESSED BY

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

