

OCC

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 4/23/73

Operator El Paso Natural Gas Company		Lease Sharp #5	
Location 800'/S, 1465'/W, Sec. 18, T28N, R8W		County San Juan	State NM
Formation Pictured Cliffs <i>EXT.</i>		Pool Undesignated <i>So Blanco</i>	
Casing: Diameter 2.875	Set At: Feet 2263	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2144	To 2206	Total Depth: 2288	Shut In 4/13/73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 640	+ 12 = PSIA 652	Days Shut-In 10	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 114	+ 12 = PSIA 126		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 151	
Temperature: T = 58 °F	F _t = 1.002	n = .85	F _{pv} (From Tables) 1.011	Gravity .645	F _g = .9645

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

$$Q = (12.365)(126)(1.002)(.9645)(1.011) = \underline{1522} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{425104}{402303} \right)^n = (1522)(1.0567)^{.85} = (1522)(1.0480) = \underline{1596} \text{ MCF/D}$$

$$Aof = \underline{1596} \text{ MCF/D}$$

NOTE: The well produced dry gas.

TESTED BY Norton

WITNESSED BY _____



William D. Welch
William D. Welch
Well Test Engineer