

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-25-73

Operator El Paso Natural Gas Company		Lease Bruington #5	
Location 850/N, 1740/W, Sec 5 T-30N, R-11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2-7/8	Set At: Feet 2364	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2230	To 2254	Total Depth: 2364	Shut In 7-13-73
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 439	+ 12 = PSIA 451	Days Shut-In 11	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 208	+ 12 = PSIA 220		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 264	
Temperature: T = 71 °F	F _t = .9896	n = .85	F _{pv} (From Tables) 1.021	Gravity .660	F _g = .9535

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

$$Q = (12.365) (220) (.9896) (.9535) (1.021) = \underline{2621} \text{ MCF/D}$$

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

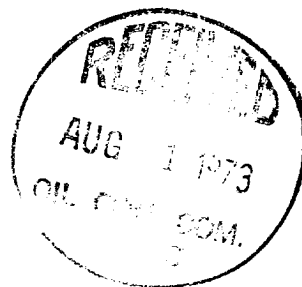
NOTE: Well produced dry gas.

$$Aof = Q \left(\frac{203401}{133705} \right)^n = 2621(1.5213)^{.85} = 2621(1.4285)$$

$$Aof = \underline{3744} \text{ MCF/D}$$

TESTED BY William Welch

WITNESSED BY _____



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