

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 31, 1973

Operator El Paso Natural Gas Company		Lease Jones A No. 10	
Location 830'N, 1070'W, Section 14, T28N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool So. Blanco	
Casing: Diameter 2-7/8	Set At: Feet 2618	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2450	To 2573	Total Depth:	Shut In 5-17-73
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 913	+ 12 = PSIA 925	Days Shut-In 14	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 174	+ 12 = PSIA 186		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 227	
Temperature: T = 63 °F	F _t = .9971	n = .85	F _{ov} (From Tables) 1.017	Gravity .645	F _g = .9645

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

$$Q = (12.365)(186)(.9971)(.9645)(1.017) = 2249 \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = Q \left(\frac{855625}{804096} \right)^n = 2249 (1.0641)^{.85} = 2249 (1.0542)$$

$$Aof = 2372 \text{ MCF/D}$$

TESTED BY Bobby Broughton

WITNESSED BY



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