

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 22, 1973

Operator El Paso Natural Gas Company		Lease Jones No. 5	
Location 1500'N, 1600'W, Section 35, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing Diameter 2.875	Set At: Feet 3074	Tubing Diameter No Tubing	Set At: Feet
Pay Zone: From 2910	To 2970	Total Depth: 3074	Shut In 5-3-73
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, 894	PSIG	+ 12 = PSIA 906	Days Shut-In 19	Shut-In Pressure, Tubing No Tubing	PSIG
Flowing Pressure: P 154	PSIG	+ 12 = PSIA 166		Working Pressure: P _w Calculated	PSIG
Temperature: T = 61 °F		n = .85		F _{pv} (From Tables) 1.015	Gravity .645 F _g = .9645

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

$$Q = (12.365) (166) (.9990) (.9645) (1.015) = 2007 \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = Q \left(\frac{820836}{777572} \right)^n = 2007 (1.0556)^{.85} = 2007 (1.0471)$$

$$Aof = 2103 \text{ MCF/D}$$

TESTED BY Tommy D. Norton

WITNESSED BY _____

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

