

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 22, 1973

Operator El Paso Natural Gas Company		Lease Jones No. 4	
Location 1460'N, 1180'E, Section 35, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3057	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2860	To 2964	Total Depth: 3057	Shut In 5-3-73
Stimulation Method SVF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 96.5	+ 12 = PSIA 977	Days Shut-In 19	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 85	+ 12 = PSIA 95		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 119	
Temperature: T = 59 °F	n = 1.001		F _{pv} (From Tables) 1.007	Gravity .645	F _g = .9645

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (12.365)(95)(1.001)(.9645)(1.007) = \underline{1142} \text{ MCF/D}$$

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

NOTE: Blew a light fog of distillate and water throughout test.

$$Aof = Q \left(\frac{954529}{940368} \right)^n = 1142 (1.0151)^{.85} = 1142 (1.0128)$$

$$Aof = \underline{1158} \text{ MCF/D}$$

TESTED BY Tommy D. Norton

WITNESSED BY

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

