

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 2, 1973

Operator El Paso Natural Gas Company		Loose San Juan 29-7 Unit No. 104	
Location 1170'S, 1120'W, Section 30, T29N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 2-7/8	Set At: Feet 3066	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2948	To 2995	Total Depth: 3066	Shut In 6-19-73
Stimulation Method SWP		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1060	+ 12 = PSIA 1072	Days Shut-in 13	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P, PSIG 81	+ 12 = PSIA 93		Working Pressure: P _w , PSIG Calculated	+ 12 = PSIA 117	
Temperature: T = 60 °F	F _t = 1.000	n = .85	F _p (From Tables) 1.011	Gravity .710	F _g = .9193

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

$$Q = (12.365)(93)(1.000)(.9193)(1.011) = 1069 \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = Q \left(\frac{1149184}{1135495} \right)^n = 1069 (1.0121)^{.85} = 1069 (1.0102)$$

$$Aof = 1080 \text{ MCF/D}$$

TESTED BY Roger Hardy

WITNESSED BY _____

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