

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 18, 1973

Operator El Paso Natural Gas Company		Lease Horton # 4	
Location 1550/N, 900/W, Sec 29, T-32N R-11-W		County San Juan	State New Mexico
Formation Pictured Cliffs <i>Ext.</i>		Pool Blanco	
Casing: Diameter 2 7/8	Set At: Feet 3331	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3190	To 3260	Total Depth: 3331	Shut In 7-10-73
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 887	+ 12 = PSIA 899	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 166	+ 12 = PSIA 178		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 227	
Temperature: T = 64 °F	F _t = .9962	n = .85	F _{pv} (From Tables) 1.018	Gravity .675	F _g = .9427

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

$$Q = (12.365)(178)(.9962)(.9427)(1.018) = \underline{2104} \text{ MCF/D}$$

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

NOTE: The well produced dry gas.

$$Aof = Q \left(\frac{808201}{756672} \right)^n = 2104(1.0681)^{.85} = 2104(1.0576)$$

$$Aof = \underline{2225} \text{ MCF/D}$$

TESTED BY Welch

WITNESSED BY _____

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