

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 11, 1975

Operator El Paso Natural Gas Company		Lease Brookhaven Com H #10	
Location 475/N, 1140/E, Sec 16, T31N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2868	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone: From 2720	To 2769	Total Depth: PBT 2868' 2858	Shut In 7-22-75
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 850	+ 12 = PSIA 862	Days Shut-In	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ---	
Flowing Pressure: P PSIG 98	+ 12 = PSIA 110		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 136	
Temperature: T = 62 °F	n = F _t = .9981		F _{pv} (From Tables) 1.009	Gravity .680	F _g = .9393

CHOKE VOLUME = Q = C × P_i × F_t × F_g × F_{pv}

$$Q = (12.365)(110)(.9981)(.9393)(1.009) = \underline{1287} \text{ MCF/D}$$

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

$$A_{of} = Q \left(\frac{743044}{724548} \right)^n = 1287(1.0255)^{.85} = 1287(1.0216)$$

$$A_{of} = \underline{1315} \text{ MCF/D}$$

Note: Well blew 246.95 MCF dry gas to atmosphere during test.

TESTED BY Rhames

WITNESSED BY _____

Charles W. Deini
Well Test Engineer