

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 7, 1975

Operator El Paso Natural Gas Company		Lease Pierce A #3	
Location 1515/S, 1060/E, Sec 13, T 30 N, R 10 W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3145'	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone: From 3060	To 3115	Total Depth: PBT 3145' 3135	Shut In 7-18-75
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 815	+ 12 = PSIA 827	Days Shut-In 20	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ---	
Flowing Pressure: P PSIG 20	+ 12 = PSIA 32		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 40	
Temperature: T = 62 °F F _t = .9981	n = .85		F _{pv} (From Tables) 1.004	Gravity .689 F _g = .9332	

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

$$Q = (12.365)(32)(.9981)(.9332)(1.004) = 370 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{683929}{682329} \right)^n = (370)(1.0023)^{.85} = (370)(1.0020)$$

$$Aof = 371 \text{ MCF/D}$$

Note: Well blew 82.16 MCF of clear gas to the atmosphere during the test.

TESTED BY J. Goodwin

WITNESSED BY

Charles W. Davis
Well Test Engineer