

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 28, 1975

Operator El Paso Natural Gas Company		Lease Pierce A #1-A	
Location 800'S, 1670'E, Sec. 13, T30N, R10W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5693'	Tubing: Diameter 2.375	Set At: Feet 5185'
Pay Zone: From 4952'	To 5634'	Total Depth: PBT 5693' 5683'	Shut In 5-13-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 2.50 4" M.R.		Choke Constant: C 32.64		Well tested thru 3/4" variable choke.	
Shut-In Pressure, Casing, PSIG 1085	+ 12 = PSIA 1097	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 151	+ 12 = PSIA 163	
Flowing Pressure: P PSIG 43 MR 130 WH	+ 12 = PSIA 55 MR 142 WH		Working Pressure: Pw PSIG 494	+ 12 = PSIA 506	
Temperature: T= 69 °F Ft=0.9915	n = 0.75		Fpv (From Tables) 1.004	Gravity .700 Fg = 1.195	

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

$$Q = \text{Calculated from orifice meter readings} = \underline{1779} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1203409}{947373} \right)^n = 1779(1.2703)^{.75} = 1779(1.1965)$$

$$Aof = \underline{2129} \text{ MCF/D}$$

TESTED BY Norton & Hardy

WITNESSED BY _____

Note: This well produced heavy slugs of fresh water in approximately 8 min. During the test the well produced 39.14 Bbls of water and 12.36 Bbls. of 42.7° API gravity oil. Gas vented to atmosphere 300.02 MCF.

Sandy W. Bink