

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 3, 1979

Operator El Paso Natural Gas Company		Lease Atlantic B 2 A (MV)	
Location NW 4 - 30 - 10		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5656	Tubing: Diameter 2 3/8	Set At: Feet 5587
Pay Zone: From 4579	To 5580	Total Depth: 5656	Shut In 6-25-79
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 206	+ 12 = PSIA 218	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 641	+ 12 = PSIA 653	
Flowing Pressure: P PSIG 206	+ 12 = PSIA 218		Working Pressure: P _w PSIG Calculate	+ 12 = PSIA 436	
Temperature: T = 62 °F	F _t = 0.9981	n = .75	F _{pv} (From Tables) 1.023	Gravity 0.685	F _g = 0.9359

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

$$Q = (12.365) (218) (0.9981) (0.9359) (1.023) = \underline{2576} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{426409}{236313} \right)^n = (2576) (1.8044)^{.75} = (2576) (1.5569)$$

NOTE: The Well Produced 343 MCF of Gas During the Test.

$$Aof = \underline{4011} \text{ MCF/D}$$

TESTED BY Jim Thurstonson

WITNESSED BY _____

C. R. Wagner
Well Test Engineer

