

OPEN FLOW TEST DATA

DATE November 28, 1977

Operator El Paso Natural Gas Company		Lease Atlantic #6A	
Location NW 22-31-10		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 4 1/2	Set At: Feet 5641'	Tubing: Diameter 1.660	Set At: Feet 3071'
Pay Zone: From 3024	To 3092	Total Depth: 5641'	Shut In 11-10-77
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 701	+ 12 = PSIA 713	Days Shut-In 18	Shut-In Pressure, Tubing PSIG 698	+ 12 = PSIA 710	
Flowing Pressure: P PSIG 130	+ 12 = PSIA 142		Working Pressure: P _w PSIG 154	+ 12 = PSIA 166	
Temperature: T = 54 °F	F _t = 1.006	n = .85	F _{pv} (From Tables) 1.014	Gravity .650	F _g = .9608

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

$$Q = 12.365 (142) (1.006) (.9608) (1.014)$$

1721

MCF/D

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

$$Aof = Q \left(\frac{508369}{487053} \right)^n = 1721(1.0438) \quad 1721(1.0371)$$

$$Aof = 1785 \text{ MCF/D}$$

Note: Well blew dry gas throughout test. Well vented 249 MCF of gas to the atmosphere during test.

TESTED BY J. Thurstonson

WITNESSED BY _____

C. R. Wagner
Well Test Engineer