

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE May 1, 1978

Operator El Paso Natural Gas Company		Lease Atlantic C #1-A	
Location NW 35-31-10		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5778'	Tubing: Diameter 2 3/8	Set At: Feet 5629'
Pay Zone: From 4601	To 5684'	Total Depth: 5778	Shut In 4-22-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG	+ 12 = PSIA	Days Shut-In 1	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
			491	503	
Flowing Pressure: P PSIG	+ 12 = PSIA		Working Pressure: Pw PSIG	+ 12 = PSIA	
190	202		Calc.	405	
Temperature: T = 62 °F	n =		Fpv (From Tables) 1.020	Gravity .650	Fg = .9608
Ft = .9981	.75				

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

$$Q = 12.365(202)(.9981)(.9608)(1.020)$$

$$= \underline{\quad 2443 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{253009}{88984} \right)^n = (2.8433)^{.75} = (2443)(2.1896)(2443)$$

$$Aof = \underline{\quad 5349 \quad} \text{ MCF/D}$$

Note: Well blew very light fog of water throughout test. Well vented 240 MCF to the atmosphere during test.

TESTED BY D. Wright

WITNESSED BY _____

C.R. Nagas
Well Test Engineer

