

OPEN FLOW TEST DATA

DATE November 17, 1977

Operator El Paso Natural Gas Company		Lease Atlantic #6-A	
Location NW 22-31-10		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4 1/2	Set At: Feet 5641'	Tubing: Diameter 2 3/8	Set At: Feet 5493'
Pay Zone: From 4521	To 5594'	Total Depth: 5641'	Shut In 11-10-77
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG	+ 12 = PSIA	Days Shut-In 7	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA
			691	703
Flowing Pressure: P PSIG	+ 12 = PSIA		Working Pressure: P _w PSIG	+ 12 = PSIA
253	265		Calc.	527
Temperature: T = 68 °F	n =	Fpv (From Tables)	Gravity	
Ft = .9924	.75	1.027	.670	Fg = .9463

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

$$Q = 12.365(265)(.9924)(.9463)(1.027) = 3160 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{494209}{216480} \right)^n = 3160(2.2829)^{.75} = 3160(1.8572)$$

$$Aof = 5869 \text{ MCF/D}$$

Note: Well blew light fog of H₂O throughout test. Well vented 438 MCF of gas to the atmosphere during test.

TESTED BY J. Thurstonson

WITNESSED BY

C. R. Wagner
Well Test Engineer