

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE February 7, 1979

Operator El Paso Natural Gas Company		Lease Atlantic B #9A (MV)	
Location SE 34-31-10		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5677'	Tubing: Diameter 2 3/8	Set At: Feet 5619'
Pay Zone: From 4514'	To 5153'	Total Depth: 5677'	Shut In 1-22-79
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 16	Shut-In Pressure, Tubing PSIG 671	+ 12 = PSIA 683	
Flowing Pressure: P PSIG 278	+ 12 = PSIA 290		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 583	
Temperature: T = 65 °F	F _t = .9952	n = .75	F _{pv} (From Tables) 1.027	Gravity .650	F _g = .9608

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

$$Q = 12.365 \times 290 \times .9952 \times .9608 \times 1.027 = 3521 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{466489}{126600} \right)^{.75} = (3.6847)^{.75} (3521) = (2.6595) (3521)$$

Note: Well blew a very light fog of water throughout test. Well vented 338 MCF to the atmosphere during the test.

$$Aof = 9364 \text{ MCF/D}$$

TESTED BY J. Thurstonson

WITNESSED BY

C. R. Wagner
Well Test Engineer

