

OPEN FLOW TEST DATA

DATE October 13, 1977

Operator El Paso Natural Gas Company		Lease Atlantic #5-A	
Location Unit 0 Sec. 22-T31N-P10W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4 1/2	Set At: Feet 5766'	Tubing: Diameter 2 3/8	Set At: Feet 5691'
Pay Zone: From 4581	To 5712	Total Depth: PB 5750	Shut In 10-6-77
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	
			599	611	
Flowing Pressure: P PSIG	+ 12 = PSIA		Working Pressure: P _w PSIG	+ 12 = PSIA	
184	196		Calc.	394	
Temperature:	n =		F _{pv} (From Tables)	Gravity	
T = 65 °F	F _t = .9952	.75	1.019	.670	F _g = .9463

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

$$Q = 12.365(196)(.9952)(.9463)(1.019) = 2326 \text{ MCF/D}$$

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

$$Aof = 0 \left(\frac{373321}{218085} \right)^n = 2326(1.7118)^{.75} = 2326(1.4966)$$

$$Aof = 3481 \text{ MCF/D}$$

Note: Well blew dry gas throughout test.
Well vented 314 MCF of gas to the atmosphere during the test.

TESTED BY J. Thurstonson

WITNESSED BY _____

C. R. Wagner
Well Test Engineer

