

OPEN FLOW TEST DATA

DATE August 16, 1977

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #123	
Location NE 7-27-04		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4 1/2	Set At: Feet 6412'	Tubing: Diameter 2 3/8"	Set At: Feet 6345'
Pay Zone: From 5496'	To 6348'	Total Depth: 6412'	Shut In 7-23-77
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches orifice 4" MR plate 2.750		Meter Choke Constant: C 41.10		Well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG	+ 12 = PSIA	Days Shut-In 16	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
			1135	1147	
Flowing Pressure: P PSIG	+ 12 = PSIA	Working Pressure: P _w PSIG	+ 12 = PSIA		
MR 147 WH 345	MR 159 WH 357	Calc.	780		
Temperature:	n =	F _{pv} (From Tables)	Gravity		
T = 41 °F F _t = 1.019	.75	1.017	.670	F _g = 1.222	

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

$$Q = \quad = \quad 4526 \quad \text{MCF/D}$$

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

$$Aof = \left(\frac{1315609}{707209} \right)^n = (4526) (1.8603)^{.75} = (4526) (1.5929)$$

$$Aof = \quad 7209 \quad \text{MCF/D}$$

Note: Well made no liquids during test.
Well vented to atmosphere 485 MCF during test.

TESTED BY F. Johnson

WITNESSED BY

C. R. Wagner
Well Test Engineer

