

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 13, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #126 (MV)	
Location 1680/S, 1190/W, Sec. 20, T27N, R4W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6163'	Tubing: Diameter 2.375	Set At: Feet 6110'
Pay Zone: From 5906'	To 6128'	Total Depth: PBD 6163' 6147'	Shut In 12-5-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG PC Casing 977	+ 12 = PSIA 989	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 900	+ 12 = PSIA 912	
Flowing Pressure: P PSIG 279	+ 12 = PSIA 291		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 600	
Temperature: T = 56 °F Ft = 1.004	n = .75		F _{pv} (From Tables) 1.030	Gravity .660 F _g = 0.9535	

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

$$Q = 12.365(291)(1.004)(0.9535)(1.030) = \underline{\hspace{2cm}} 3548 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{831744}{471744} \right)^n = 3548(1.7631)^{.75} = 3548(1.5301)$$

$$Aof = \underline{\hspace{2cm}} 5429 \text{ MCF/D}$$

Note: The well produced a light fog of water during the test.

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

Karen W. Foxbergill
Well Test Engineer