

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 16, 1966

Operator EL PASO NATURAL GAS COMPANY		Lease Tridge No. 4-X	
Location 950'N, 990'E, Sec. 1, T-31-N, R-11-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7.000	Set At: Feet 3023	Tubing: Diameter 2.375	Set At: Feet 5072
Pay Zone: From 4605	To 5370	Total Depth: 5400	Shut In 12-2-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		4 1/2" liner 2073' to 5400'	
Shut-In Pressure, Casing, PSIG 905	+ 12 = PSIA 917	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 905	+ 12 = PSIA 917	
Flowing Pressure: P PSIG 315	+ 12 = PSIA 357		Working Pressure: Pw PSIG 788	+ 12 = PSIA 800	
Temperature: T = 74 °F	Ft = .9868	n = .75	Fpv (From Tables) 1.034	Gravity .666	Fg = .9498

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (12.365)(357)(.9868)(.9498)(1.034) = 4278 \text{ MCF/D}$$

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

$$Aof = \left(\frac{810889}{200889} \right)^n = (4278)(4.1858)^{.75} = (4278)(2.9264)$$

NOTE: The well produced a light fog which cleared up in 3 minutes and then produced dry gas for the entire test period.

$$Aof = 12519 \text{ MCF/D}$$

TESTED BY D. Norton

WITNESSED BY T. B. Grant



H. L. Kendrick