

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 9-1-66

Operator El Paso Natural Gas Company		Lease Mansfield No. 9	
Location 1090 N, 890 E, 29-30-9		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5016	Tubing: Diameter 2.375	Set At: Feet 4931
Pay Zone: From 4272	To 4970	Total Depth: 5016	Shut In 8-25-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

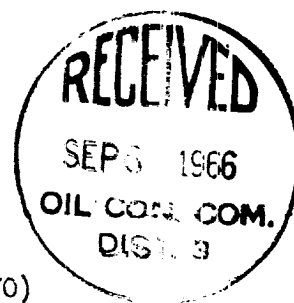
Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-in Pressure, Casing, PSIG 863	+ 12 = PSIA 875	Days Shut-In 7	Shut-in Pressure, Tubing PSIG 856	+ 12 = PSIA 868	
Flowing Pressure: P PSIG 315	+ 12 = PSIA 327		Working Pressure: P _w PSIG 722	+ 12 = PSIA 734	
Temperature: T = 75 °F	F _t = .9859	n = .75	F _{pv} (From Tables) 1.041	Gravity .750	F _g = .8944

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

$$Q = (12.365)(327)(.9859)(.8944)(1.041) = \underline{3712} \text{ MCF/D}$$

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

$$Aof = \left(\frac{765625}{226869} \right)^n = (3712)(3.3747)^{.75} = (3712)(2.4870)$$



NOTE: Blew dry gas for entire test

$$Aof = \underline{9232} \text{ MCF/D}$$

TESTED BY J. B. GoodwinCHECKED BY T. B. Grant

H. L. Kendrick