

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 15, 1966

Operator El Paso Natural Gas Company		Lease Day A No. 1 (ONVO)	
Location S9011, S9012, Section 17, E-29-T, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5590	Tubing: Diameter 2.375	Set At: Feet 5507
Pay Zone: From 5398	To 5544	Total Depth: 5590	Shut In 8-07-66
Stimulation Method Sand Water Trac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 827	+ 12 = PSIA 839	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 403	+ 12 = PSIA 415	
Flowing Pressure: P PSIG 263	+ 12 = PSIA 275	Working Pressure: Pw PSIG 751	+ 12 = PSIA 763		
Temperature: T = 76 °F Ft = .9850	n = .75	Fpv (From Tables) 1.029	Gravity .700 Fg = .9258		

CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_{pv}

Q = (12.365) (275) (.9850) (.9258) (1.029) = 3,191 MCF/D

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

Aof = $\left(\frac{703,021}{121,752} \right)^n = (3,191) (5.7815)^{.75} = (3,191) (3.7299) = 11,898$

Aof = 11,898 MCF/D



NOTE: Flow dead in approx. 1-1/2 minutes and then unloaded heavy slug of hydrocarbons and some H₂O then cleared up to light mist of hydrocarbons for the rest of Test.

TESTED BY H. L. Kendrick
OBTAINED BY
WITNESSED BY Sam R. Grant

H. L. Kendrick
H. L. Kendrick