

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE October 17, 1967

Operator El Paso Natural Gas Company		Lease Kelly A No. 3 (OWNO)	
Location 1650'N, 1650'E, Sec. 15, T-31-N, R-10-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5610	Tubing: Diameter 2.375	Set At: Feet 4741
Pay Zone: From 5274	To 5568	Total Depth: 5610	Shut In 10-9-67
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 793	+ 12 = PSIA 805	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 782	+ 12 = PSIA 804	
Flowing Pressure: P PSIG 312	+ 12 = PSIA 324		Working Pressure: Pw PSIG 696	+ 12 = PSIA 708	
Temperature: T = 79 °F	Ft = .9822	n = .750	Fpv (From Tables) 1.031	Gravity .670	Fg = .463

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = (12.365)(324)(.9822)(.9463)(1.031) = 3839 \text{ MCF/D}$$

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

$$Aof = \left(\frac{648025}{146761} \right)^{.75} = (3839)(4.4155)^{.75} = (3839)(3.0460)$$

NOTE: The well blew a slight fog of distillate throughout the test.

$$Aof = 11,694 \text{ MCF/D}$$

TESTED BY D. Norton

CALCULATED BY A. J. Loleit

WITNESSED BY



H. L. Kendrick

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