

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 17, 1965

Operator El Paso Natural Gas Company		Lease Prichard No. 3-2 (OWWO)	
Location 1850'S, 1550'W, Section 34, T-31-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5345	Tubing: Diameter 2.375	Set At: Feet 5273
Pay Zone: From 4758	To 5304	Total Depth: 5350	Shut In 5-10-65
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 796	+ 12 = PSIA 808	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 751	+ 12 = PSIA 763	
Flowing Pressure: P PSIG 302	+ 12 = PSIA 314		Working Pressure: Pw PSIG 680	+ 12 = PSIA 692	
Temperature: T = 93 °F	F _t = .9697	n = .75	F _{pv} (From Tables) 1.023	Gravity .639	F _g = .9721

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

$$Q = (12.365) (314) (.9697) (.9721) (1.023) = 3,744 \text{ MCF/D}$$

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

$$Aof = \left(\frac{652,864}{174,000} \right)^n = (3,744) (3.7520)^{.75} = (3,744) (2.6959)$$

$$Aof = 10,093 \text{ MCF/D}$$

TESTED BY R. F. Headrick

CHECKED BY H. E. McAnally

~~WITNESSED BY~~

L. D. Galloway
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