

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 6-10-71

Operator El Paso Natural Gas Company		Lease Hardie No. 3 (OWWO)	
Location 25 - 990 N. 990 E. T29N, R8W		County San Juan	State New Mexico
Formation Yosa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5829	Tubing: Diameter 2.375	Set At: Feet 5770
Pay Zone: From 5560	To 5786	Total Depth: 5829	Shut In 5-25-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 817	+ 12 = PSIA 829	Days Shut-In 16	Shut-In Pressure, Tubing PSIG 812	+ 12 = PSIA 824	
Flowing Pressure: P PSIG 297	+ 12 = PSIA 309		Working Pressure: Pw PSIG 701	+ 12 = PSIA 713	
Temperature: T = 68 °F	Ft = .9924	n = .750	Fpv (From Tables) 1.034	Gravity .696	Fg = .9285

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

$$Q = 12.365 \times 309 \times .9924 \times .9285 \times 1.034 = 3640 \text{ MCF/D}$$

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

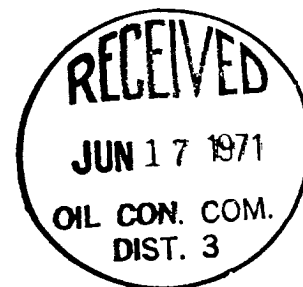
Note: Well blew light fog of water throughout test.

$$Aof = \left( \frac{687241}{178872} \right)^n = 3640(3.8420)^{.75} = 3640(2.7442)$$

$$Aof = 9989 \text{ MCF/D}$$

TESTED BY C. R. Wagner

WITNESSED BY



*H. L. Kendrick*  
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