

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE March 14, 1961

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 125	
Location 1700'N, 1040'W, Sec. 30-26N-9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing Diameter 5-1/2" O.D.	Set At: Feet 6776	Tubing Diameter 2-3/8" O.D.	Set At: Feet 6624
Pay Zone: From 6524	To 6632	Total Depth: 6780	Shut In 1-31-61
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 1923	PSIA 1935	Days Shut-In 42	Shut-In Pressure, Tubing, PSIG 1879
Flowing Pressure: P, PSIG 492	PSIA 504	Working Pressure: P _w , PSIG 1062	PSIA 1074
Temperature: T = 85 F	F _t = .9768	F _{pv} (From Tables) 1.055	Gravity .715 F _g = .9161

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

$$Q = (12.365)(504)(.9768)(.9161)(1.055) = 5883 \text{ MCF/D}$$

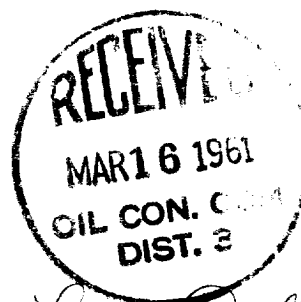
$$\text{OPEN FLOW } Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{3,744,225}{2,590,749} \right)^n = (1.4452)^{.75} (5883) = (1.3180)(5883)$$

$$Aof = 7754 \text{ MCF/D}$$

TESTED BY R. F. Headrick

WITNESSED BY

Calculated by: W. D. Dawson

Lewis D. Galloway

L. D. Galloway
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