

OPEN FLOW TEST DATA

DATE November 1, 1961

CORRECTED COPY

Operator El Paso Natural Gas Company		Lease Turner State No. 2 (OMW)	
Location 990' N, 990' E, Sec. 2-30N-9W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4-1/2" O.D.	Set At: Feet 11.6 lbs. 5117	Tubing: Diameter 2-3/8" O.D.	Set At: Feet 5028
Pay Zone: From 4932	To 5054	Total Depth: 5119 c/o 5079	Shut-in 10-21-61
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing
			X

Choke Size, inches .75	Choke Constant: C 12.365	Shut-in Pressure, Casing, PSIG 785	PSIA 797	Days Shut-In 11	Shut-in Pressure, Tubing, PSIG 785	PSIA 797
Flowing Pressure: P 224	PSIG 236	PSIA 236	Working Pressure: Fw, PSIG 690	PSIA 702	Flowing Pressure: Fw, PSIG 690	PSIA 702
Temperature: T 83	F .9786	Gravity .9608	F _{pv} (From Tables) 1.020			
	.75					

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

$$Q = (12.365)(236)(.9786)(.9608)(1.020)$$

2799 MCF/D

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

$$Aof = \left(\frac{635,209}{142,405} \right)^n (2799)(4.4605)^{.75} = (2799)(3.0750)$$

Aof **8607** MCF/D

C. R. Wagner

Calculated by: W. D. Dawson

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