

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 22, 1957

Operator El Paso Natural Gas		Lease Warren No. 3 (P)	
Location 1550'S, 1090'W, Sec. 13-28-9		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing Diameter 7-5/8 5-1/2"	Set At: Feet 2393 2222 - 4712	Tubing Diameter 1-1/4	Set At: Feet 2273
Pay Zone: From 2226	To 2284	Total Depth: 4720 - c/o 4680	
Stimulation Method Sand Water Frac.		Flow Through Casing K	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG PC 870	- 12 - PSIA 882	Days Shut-In 14	Shut-In Pressure, Tubing PSIG PC 870	- 12 - PSIA 882	
Flowing Pressure: P PSIG 179	- 12 - PSIA 191		Working Pressure: Pw PSIG 182	- 12 - PSIA 194	
Temperature: T F 61	n .850		Fpv (From Tables) 1.017	Gravity .640	

Final SIPT (MV) - 1005 psig. 2" at 4633'. Packer at 2377'. Sleeve at 2281'

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$Q = 12.365 \times 191 \times .9990 \times .9682 \times 1.017 = 2323$ MCF/D

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

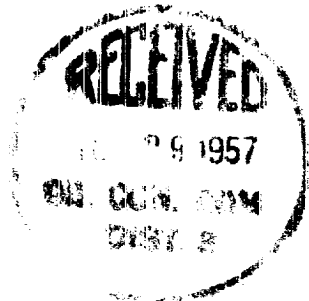
$Aof = \left(\frac{777,924}{740,288} \right)^n = 1.0508^{.85} \times 2323 = 1.0431 \times 2323$

Aof 2423 MCF/D

TESTED BY R. R. Davis

WITNESSED BY

cc: E. S. Oberly (6)



Lewis D. Galloway
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